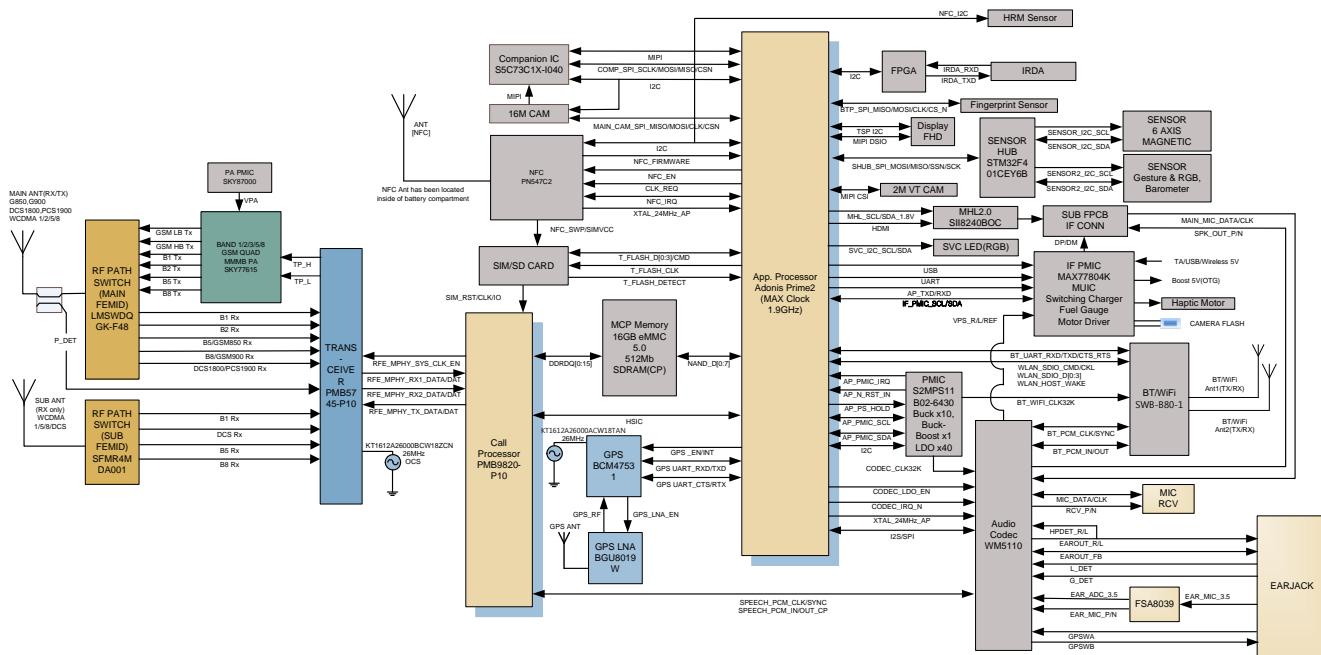


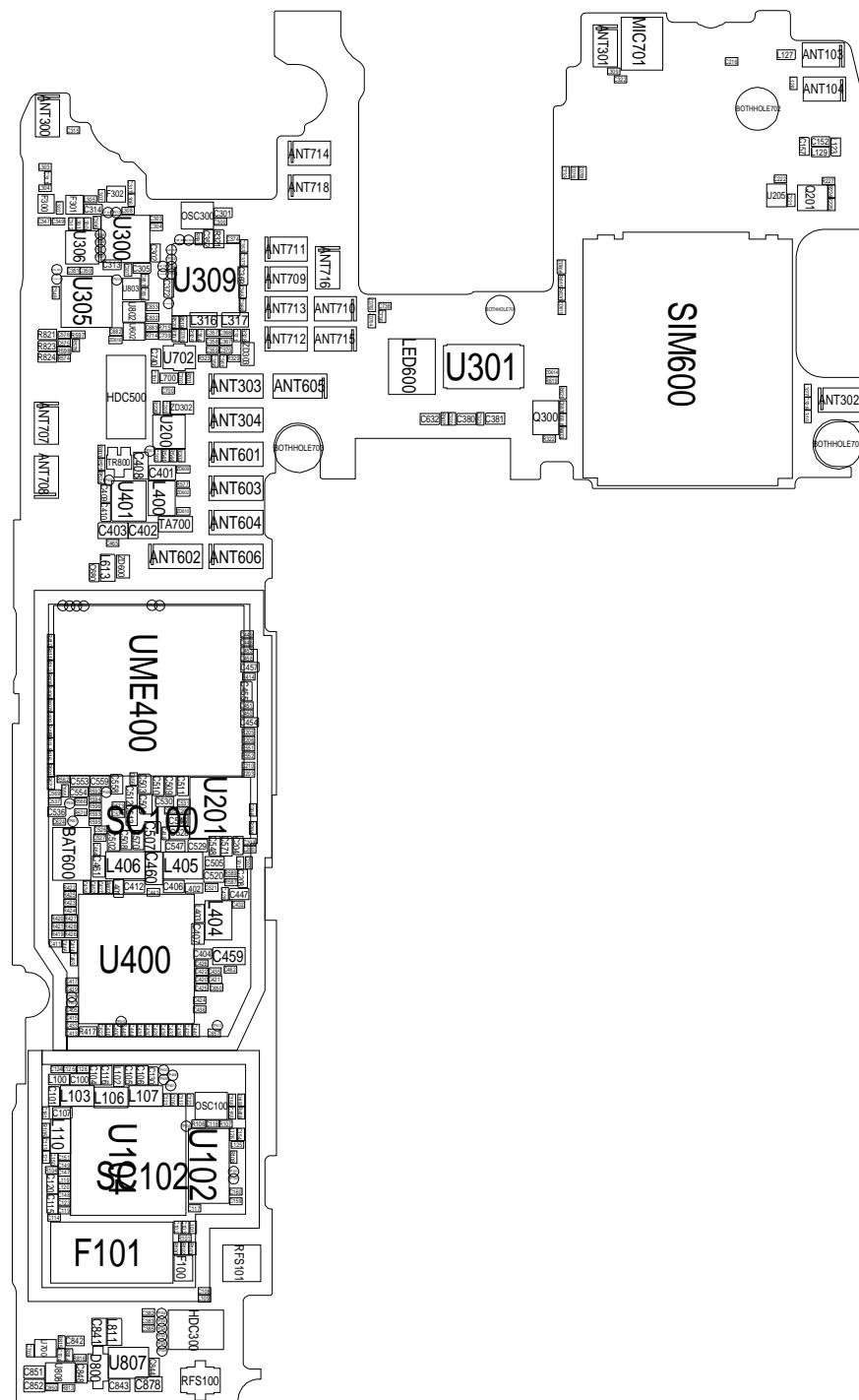
8. Level 3 Repair (VIETMOBILE.VN)

8-1. Block Diagram

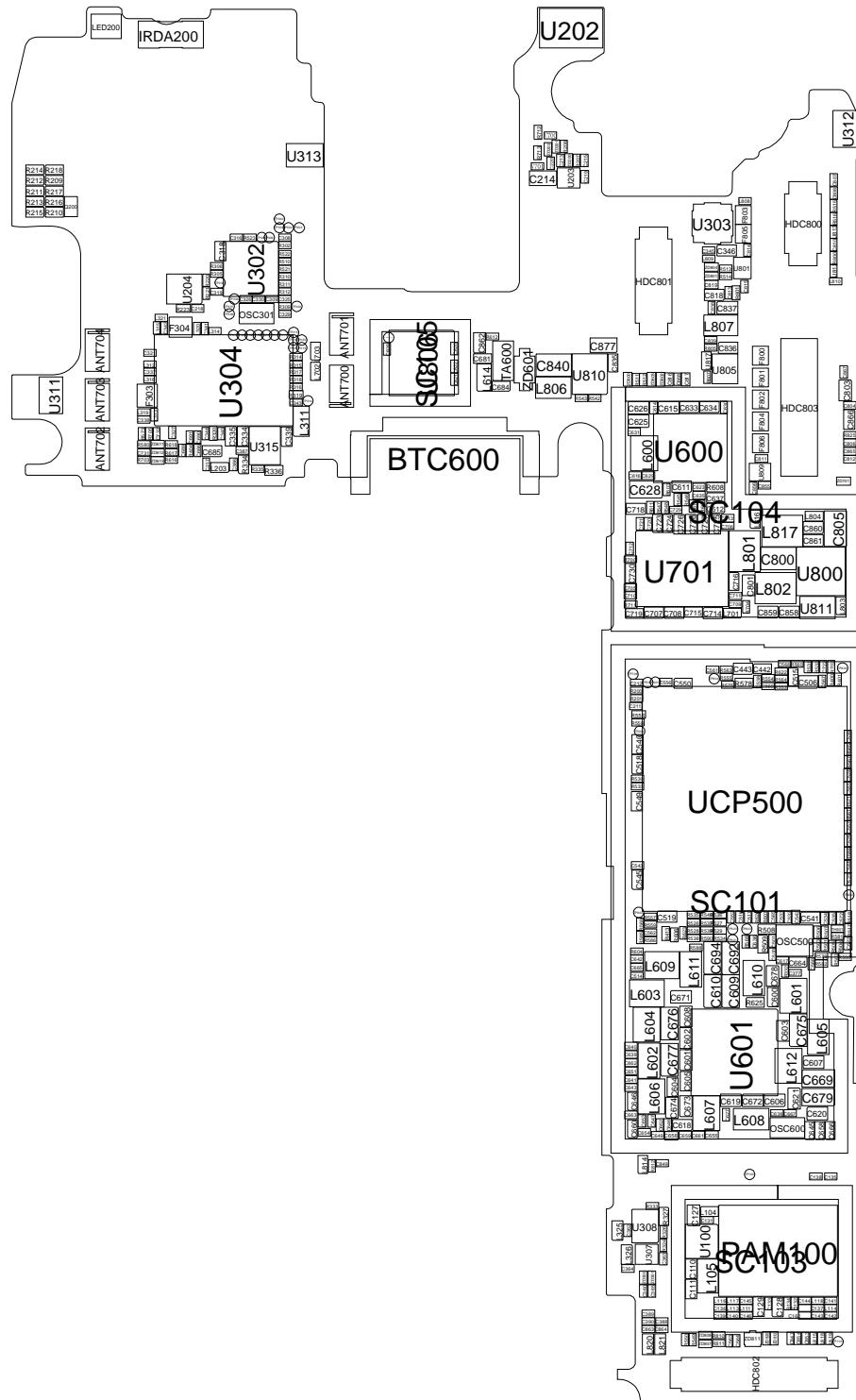


8-2. PCB Diagrams

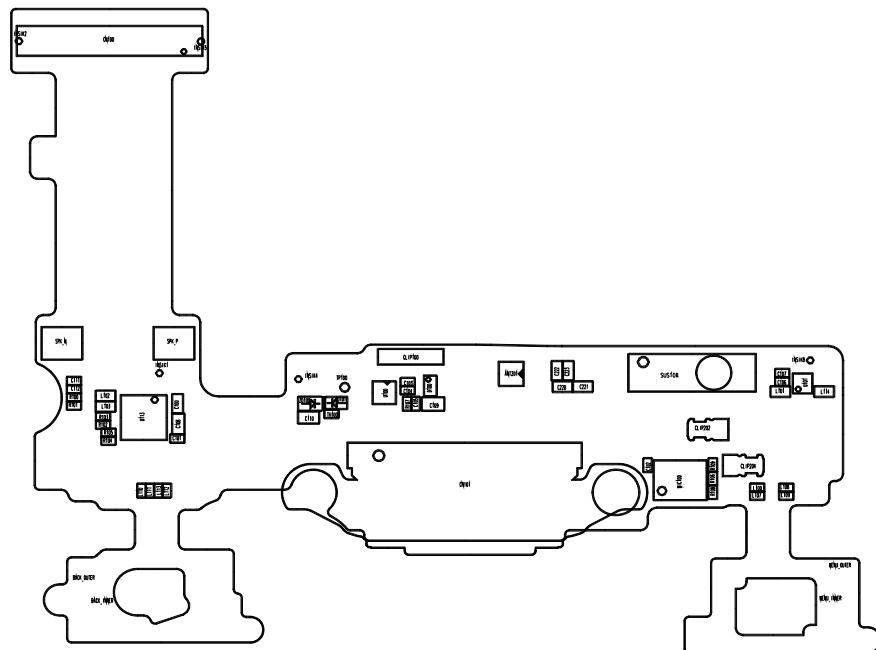
8-2-1. Main PCB Top



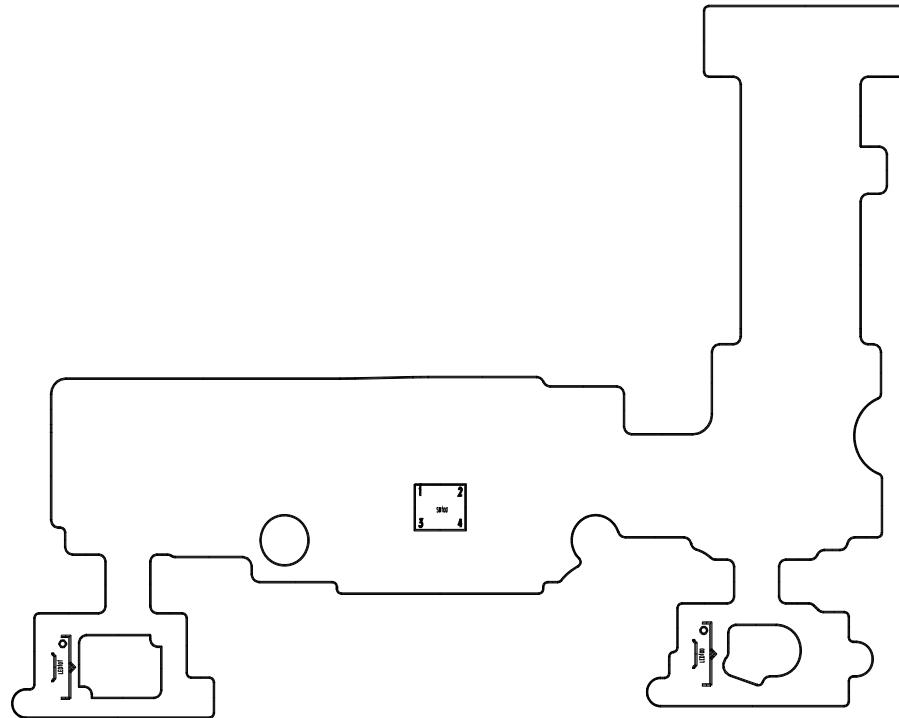
8-2-2. Bottom



8-2-3. Sub PCB Top

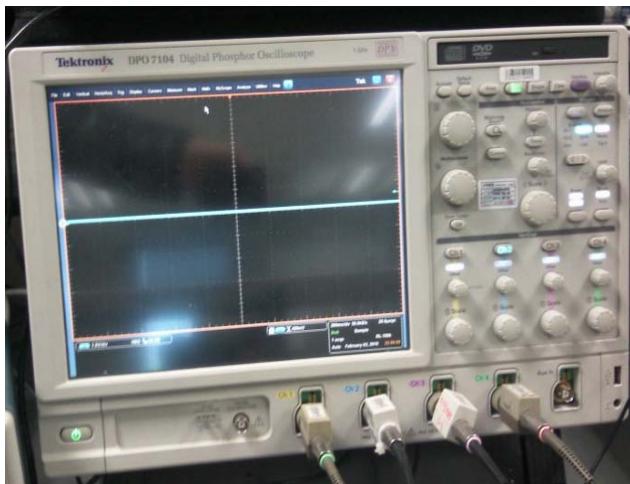


8-2-4. Sub PCB Bottom



8-3. Flow Chart of Troubleshooting

Equipments



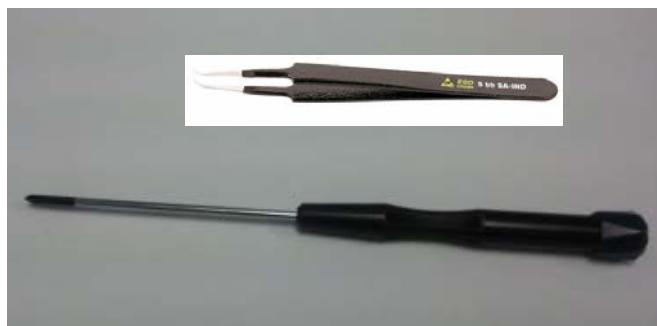
↑ Oscilloscope



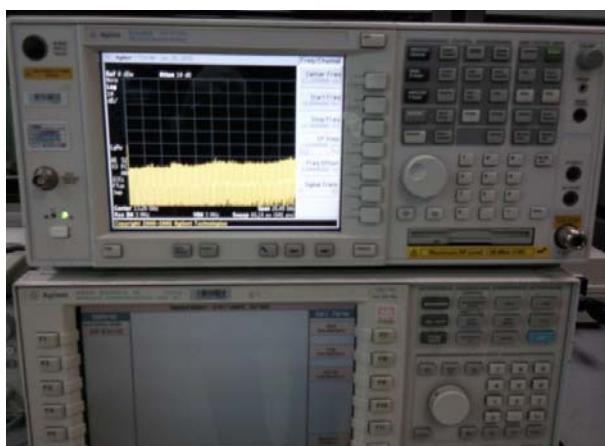
á Digital Multimeter



á Power Supply



á + driver, ESD Safe Tweezer

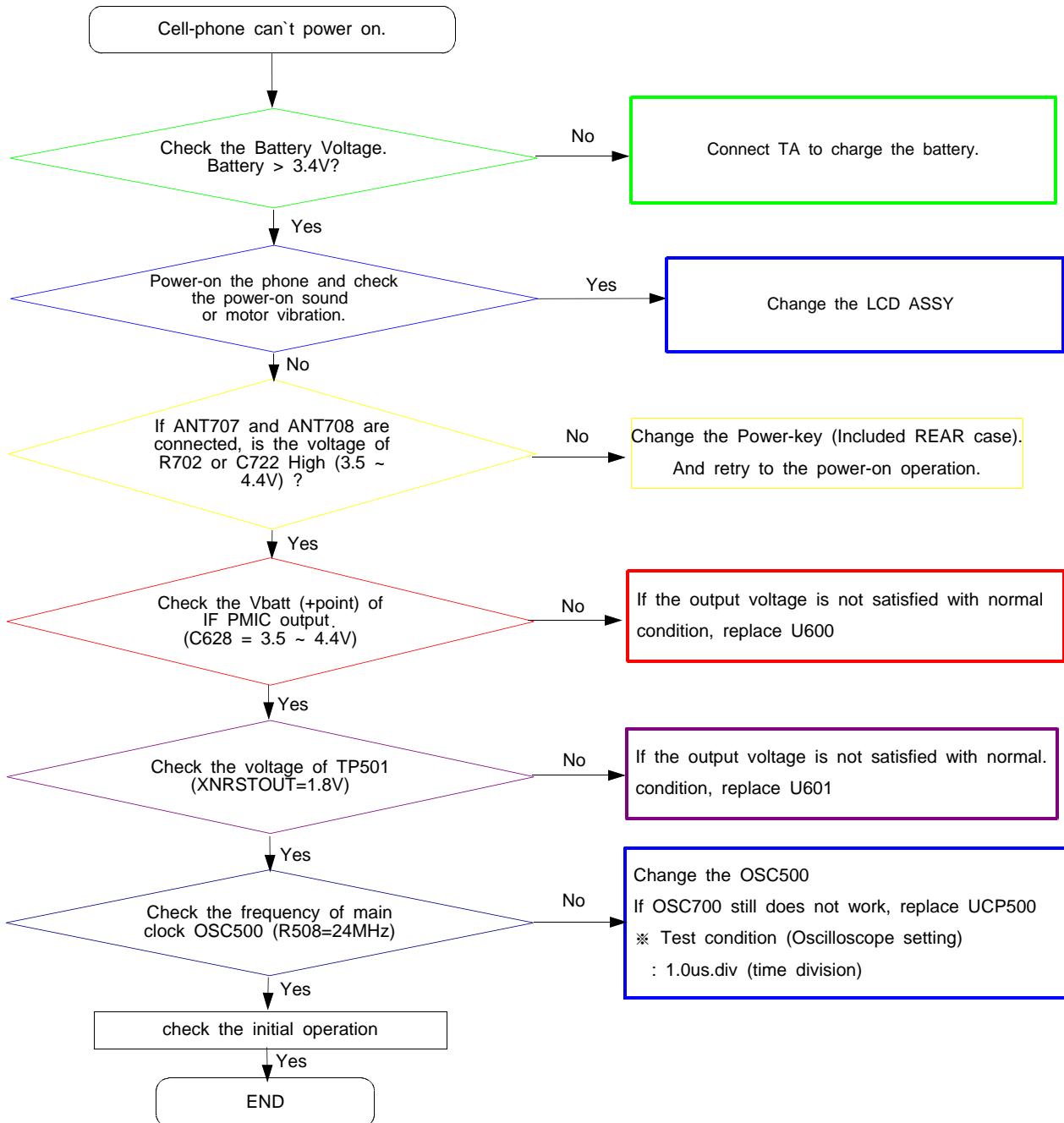


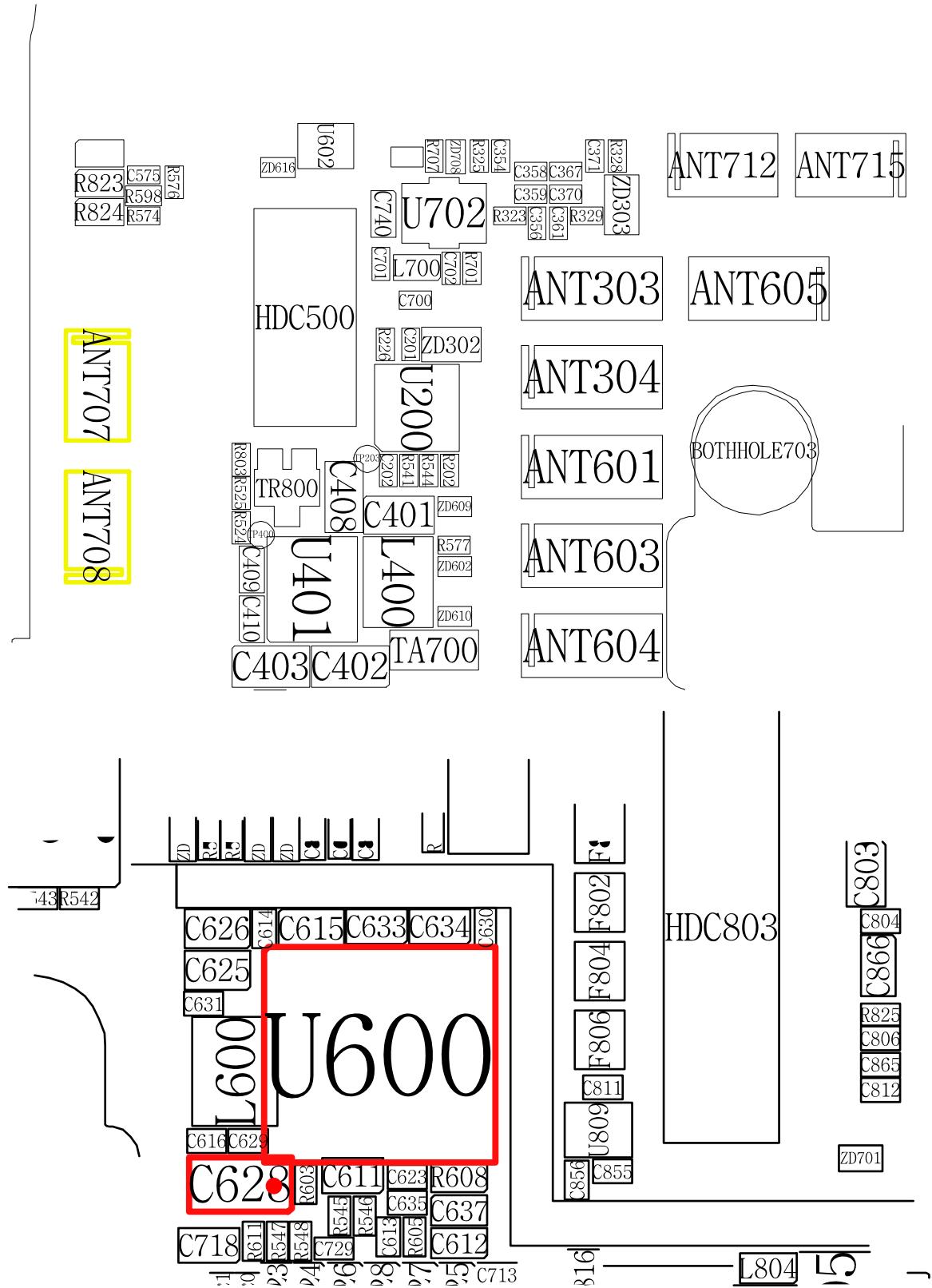
↑ 8960 & Spectrum Analyzer

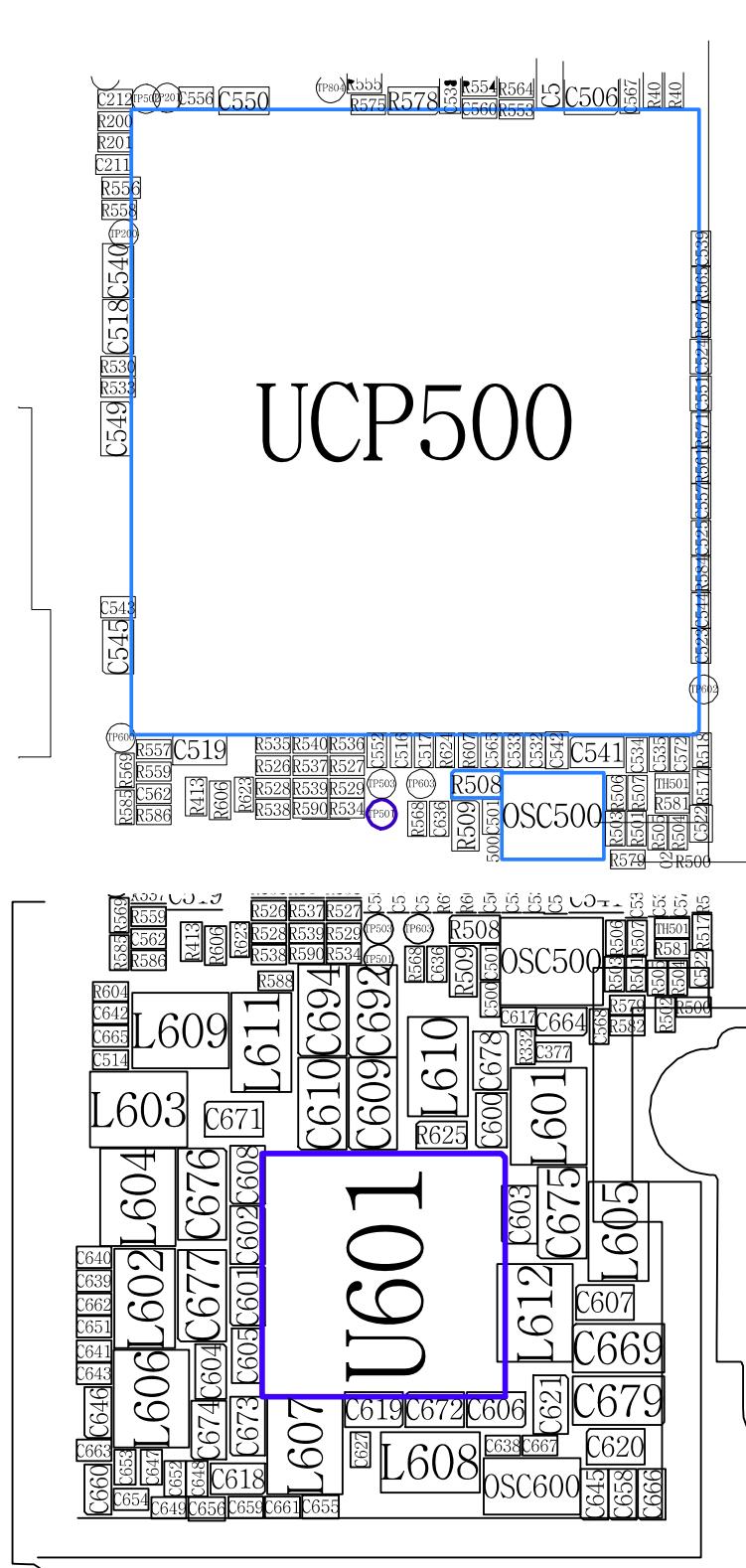


á Soldering iron

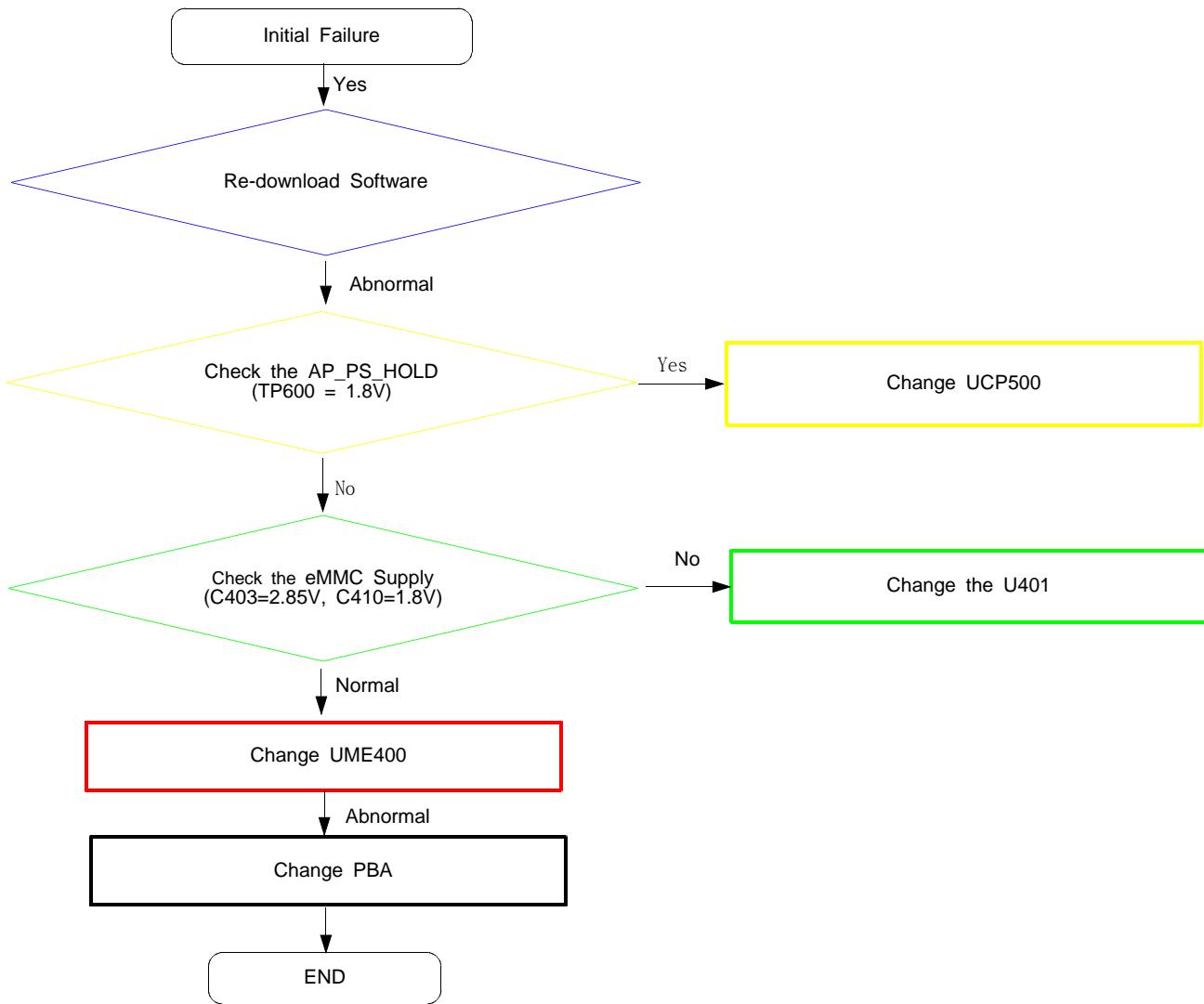
8-3-1. Power On

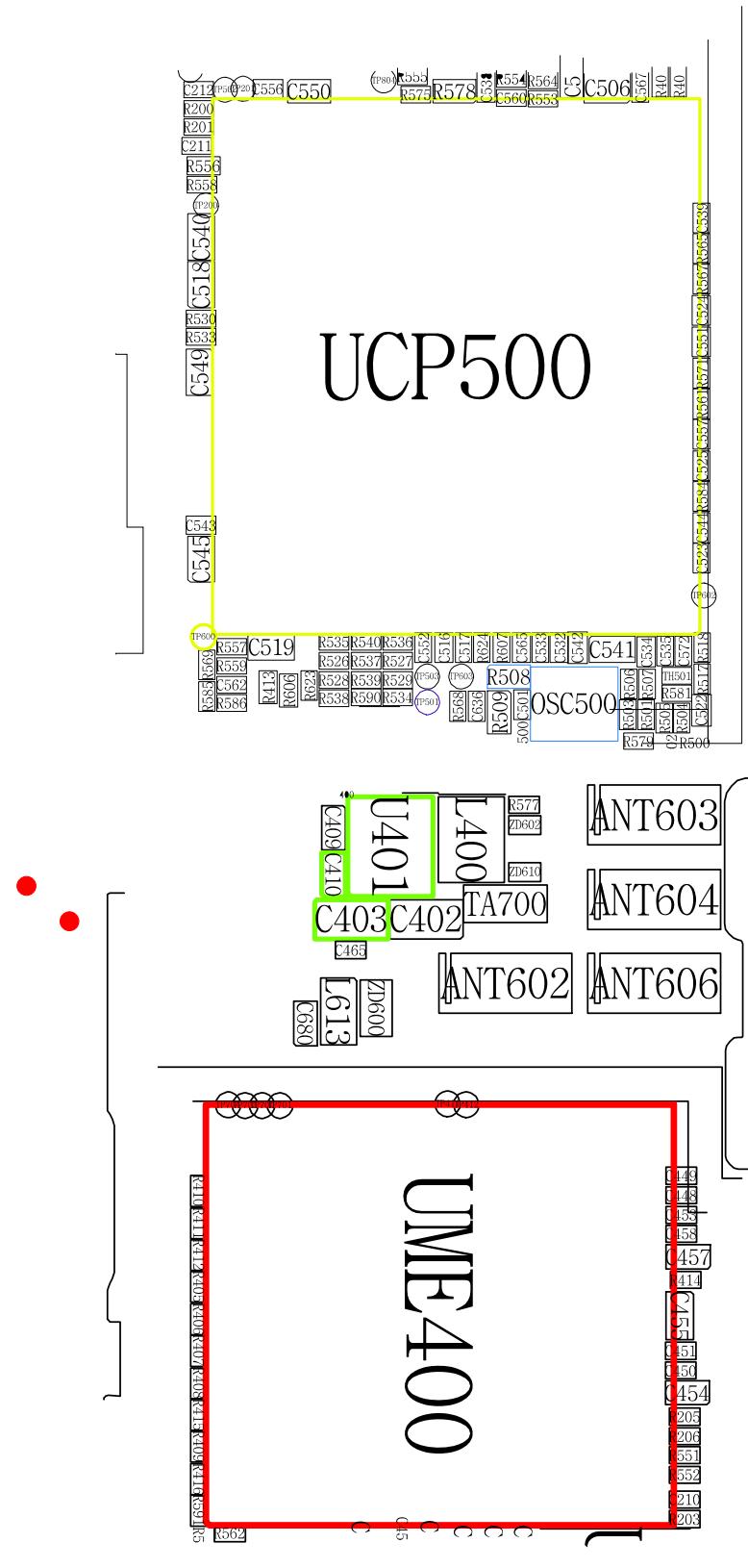




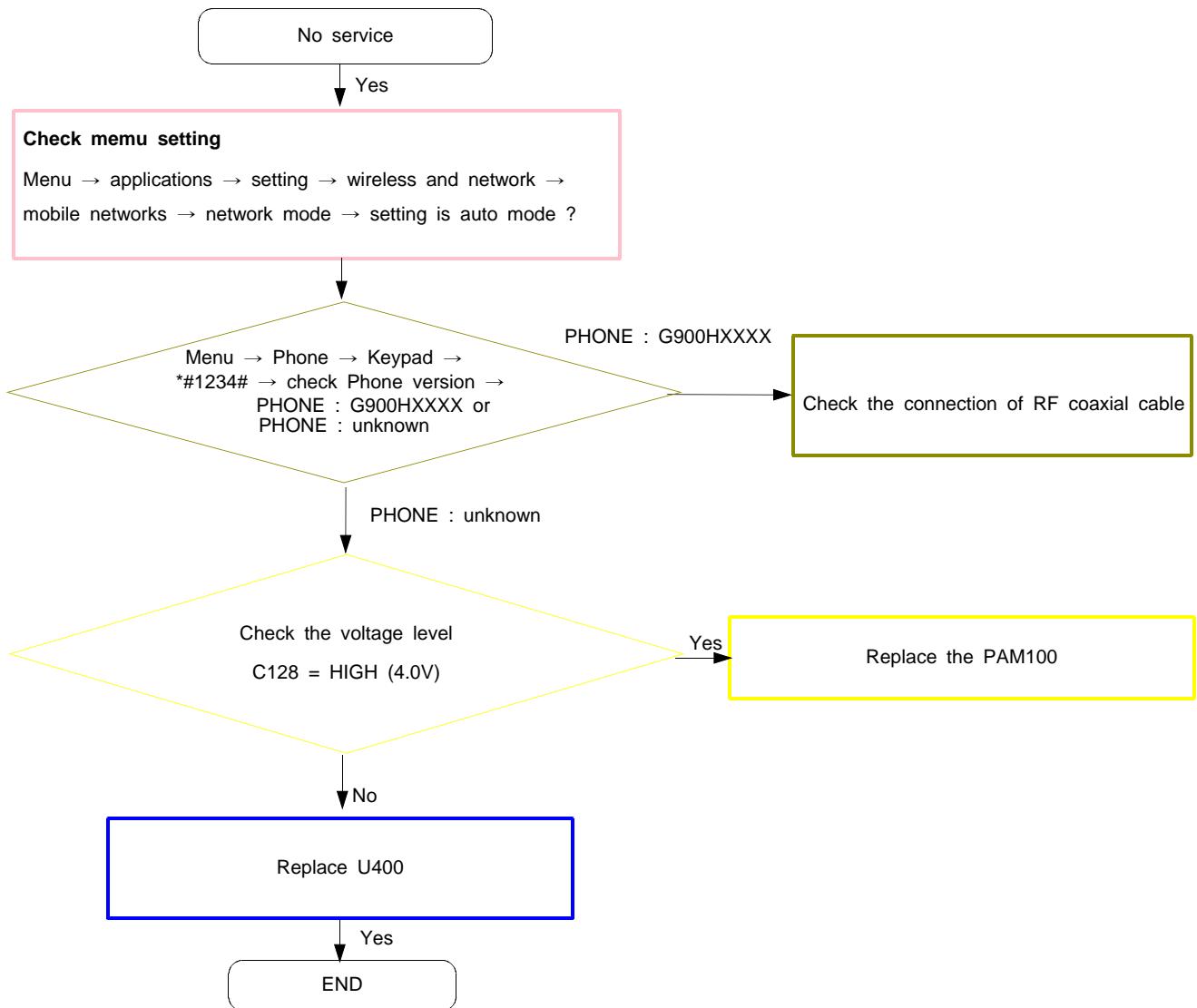


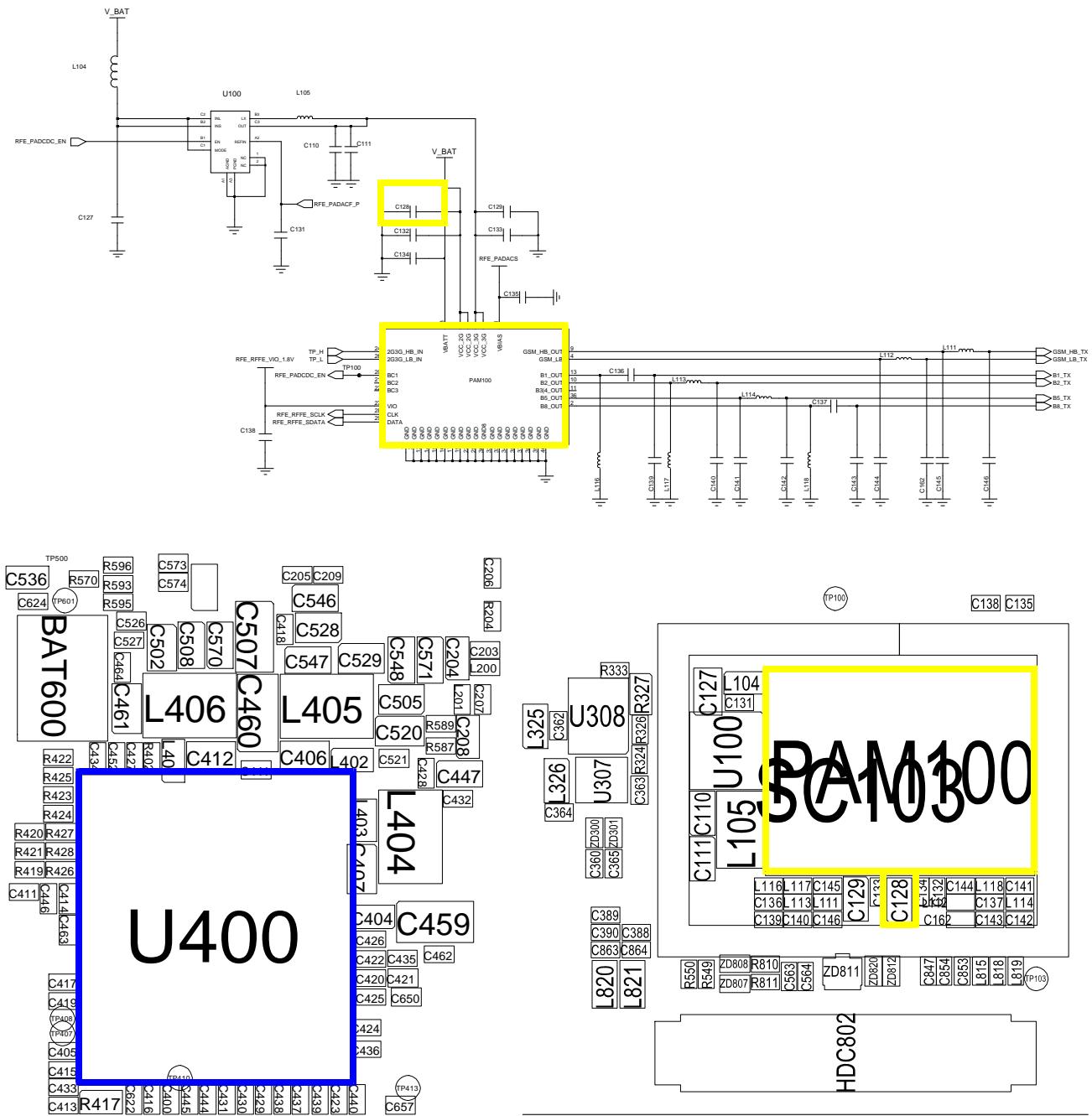
8-3-2. Initial



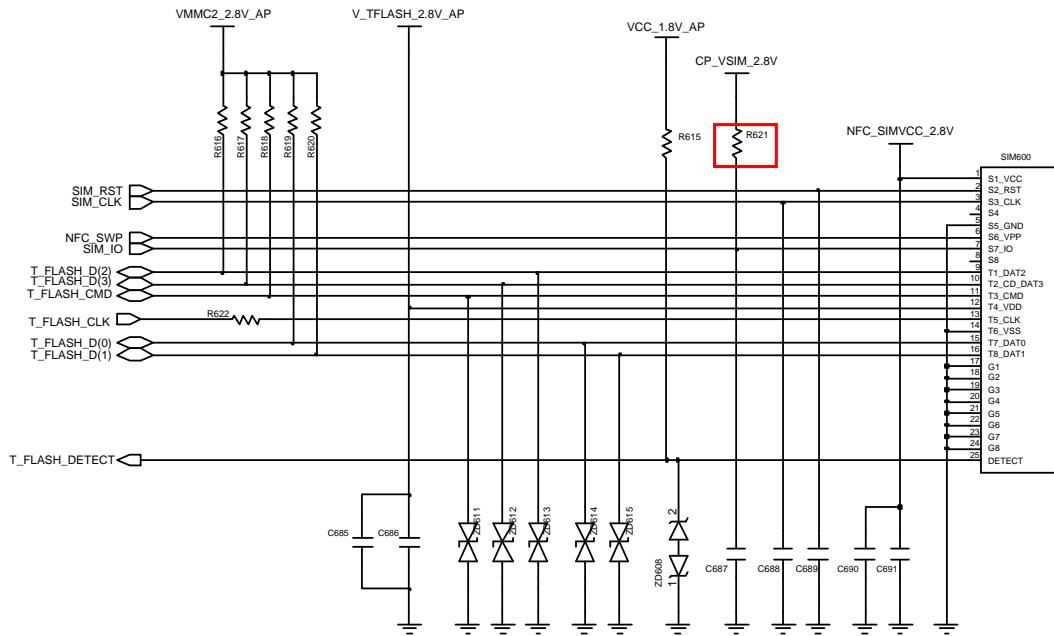
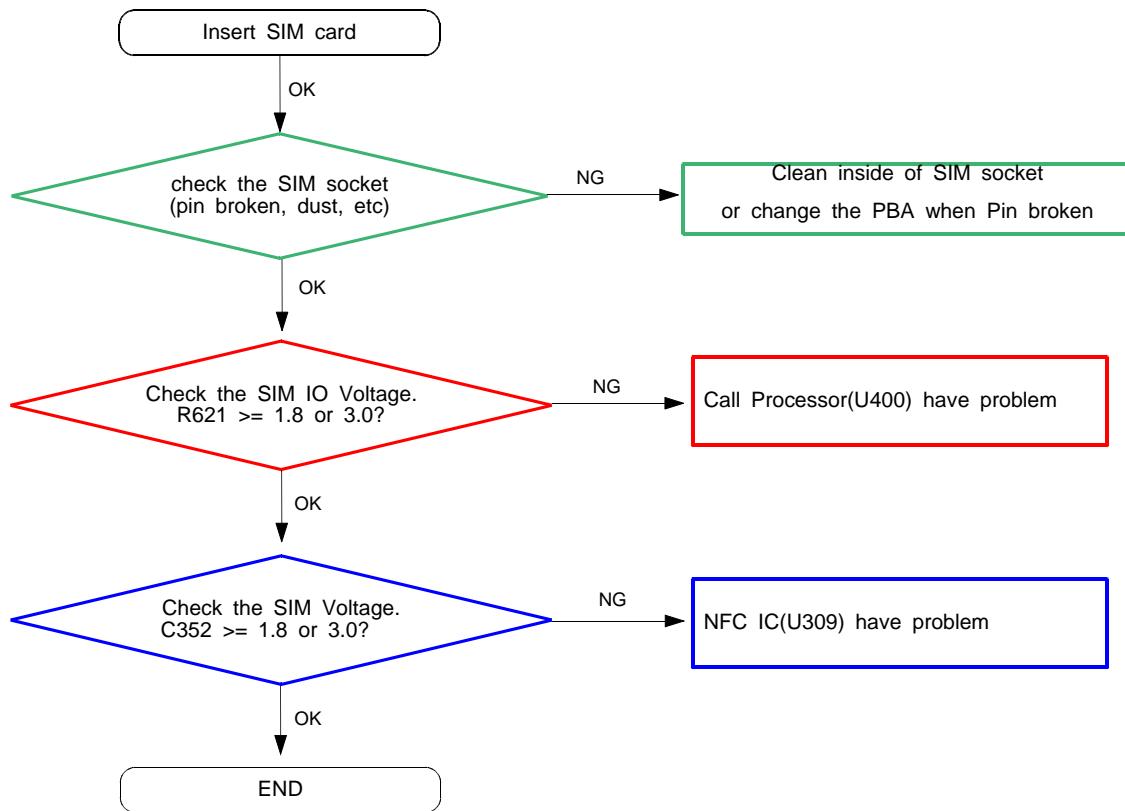


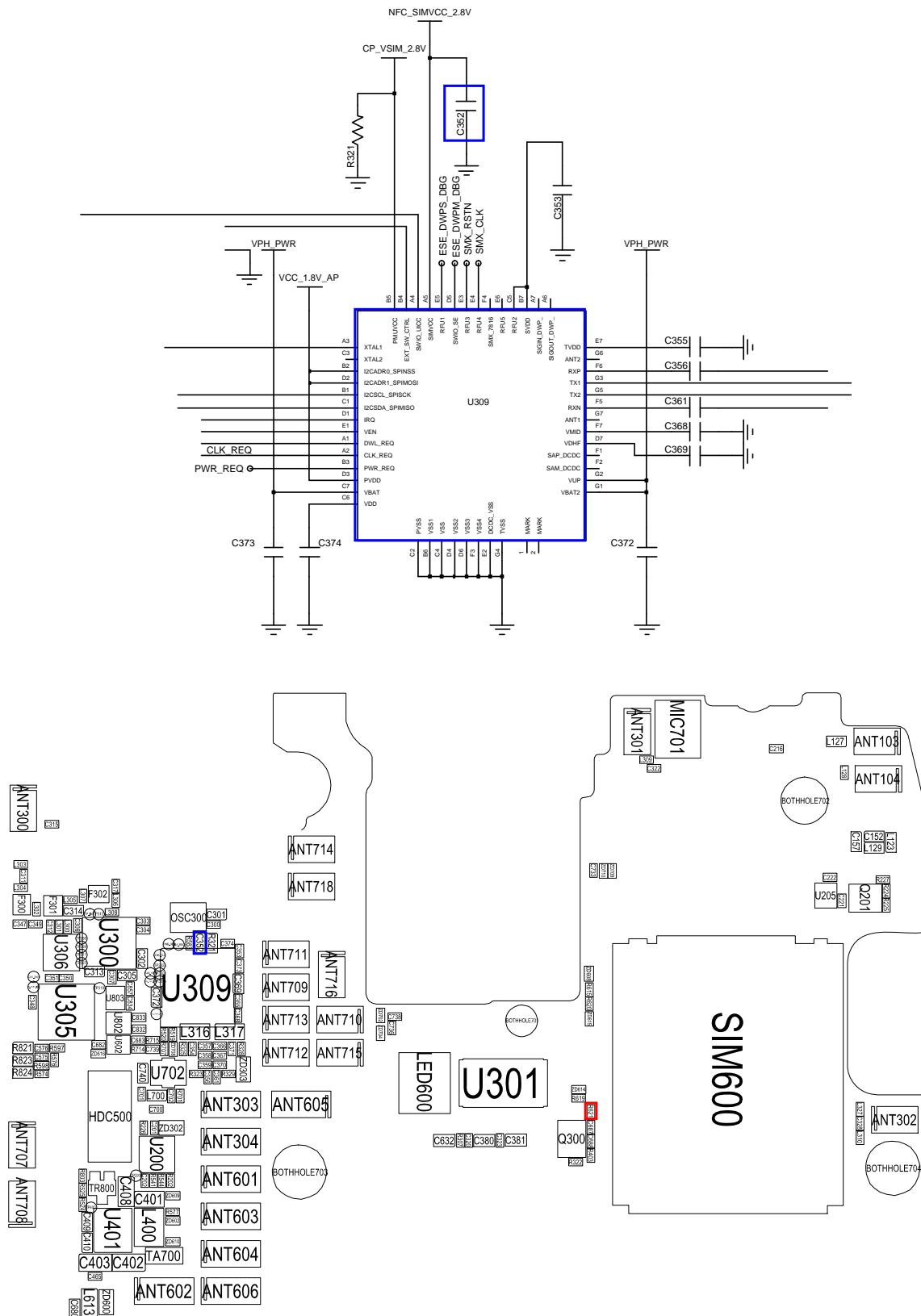
8-3-3. No Service



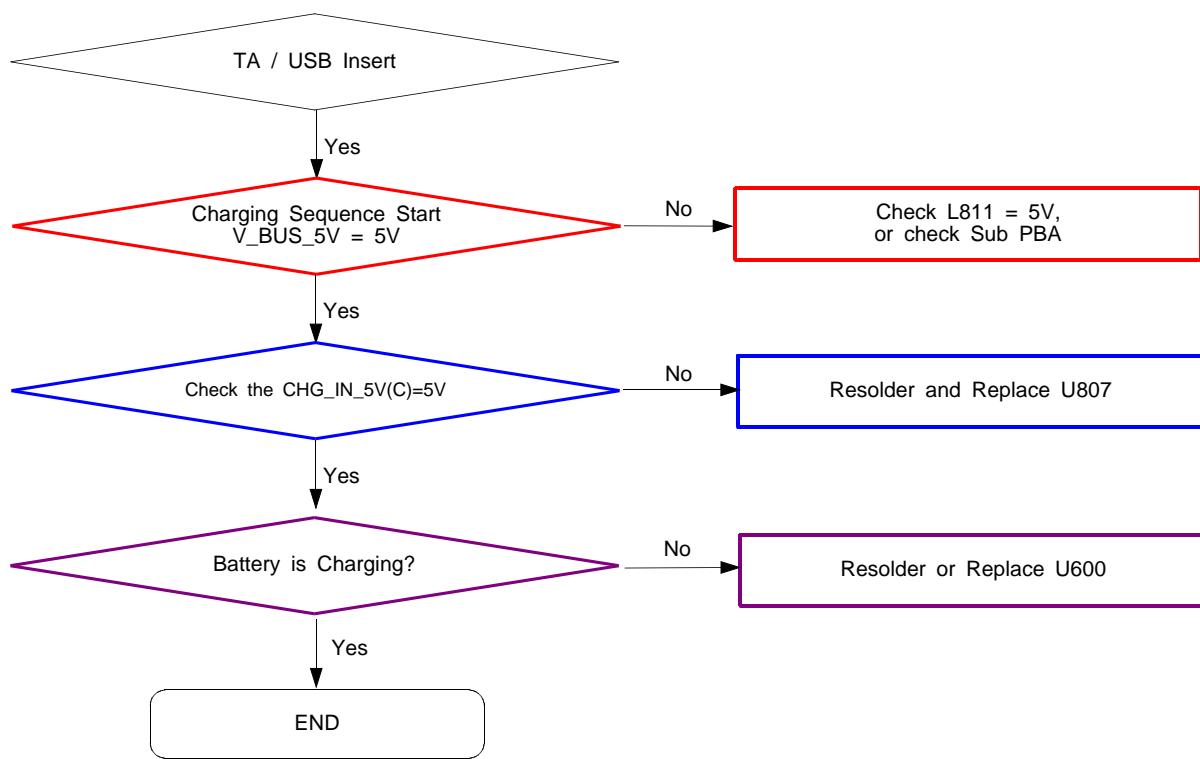


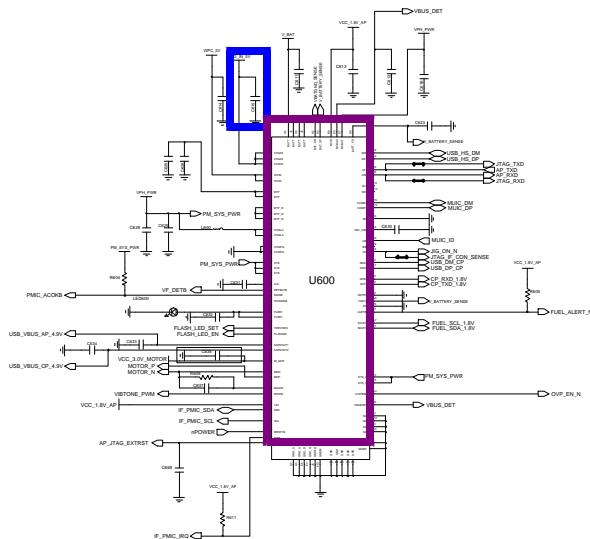
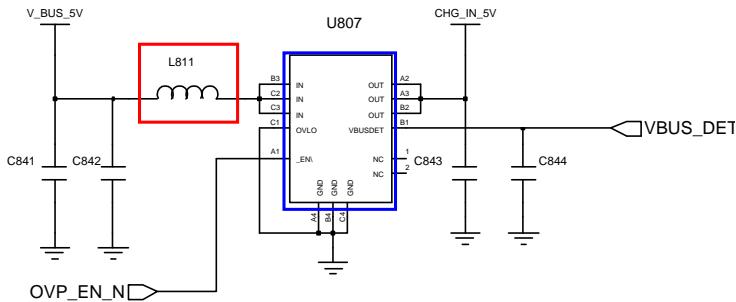
8-3-4. Sim Part

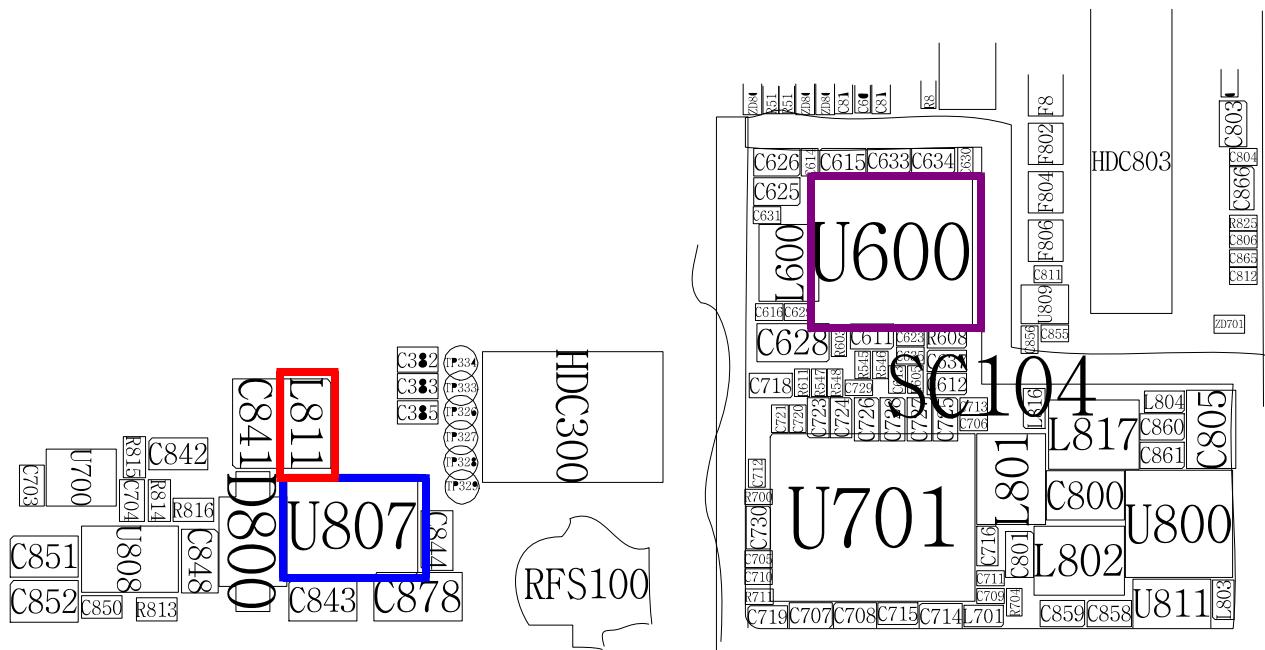




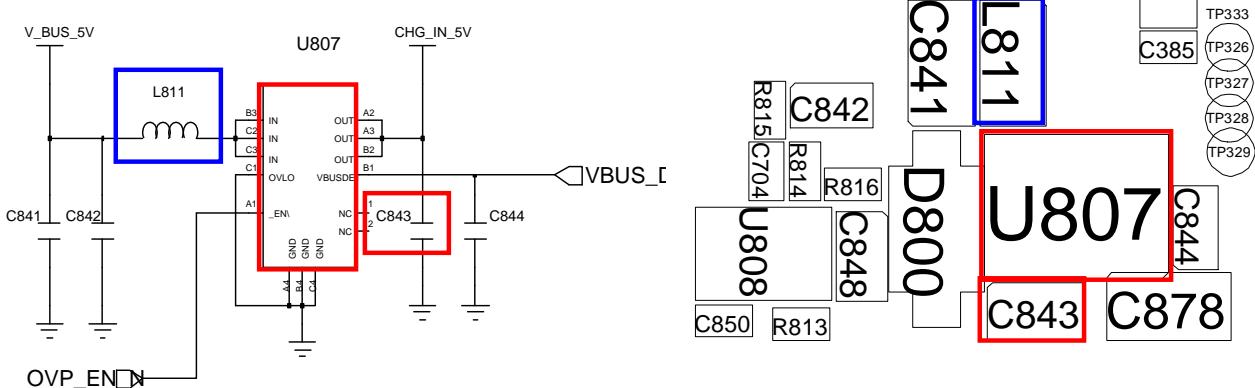
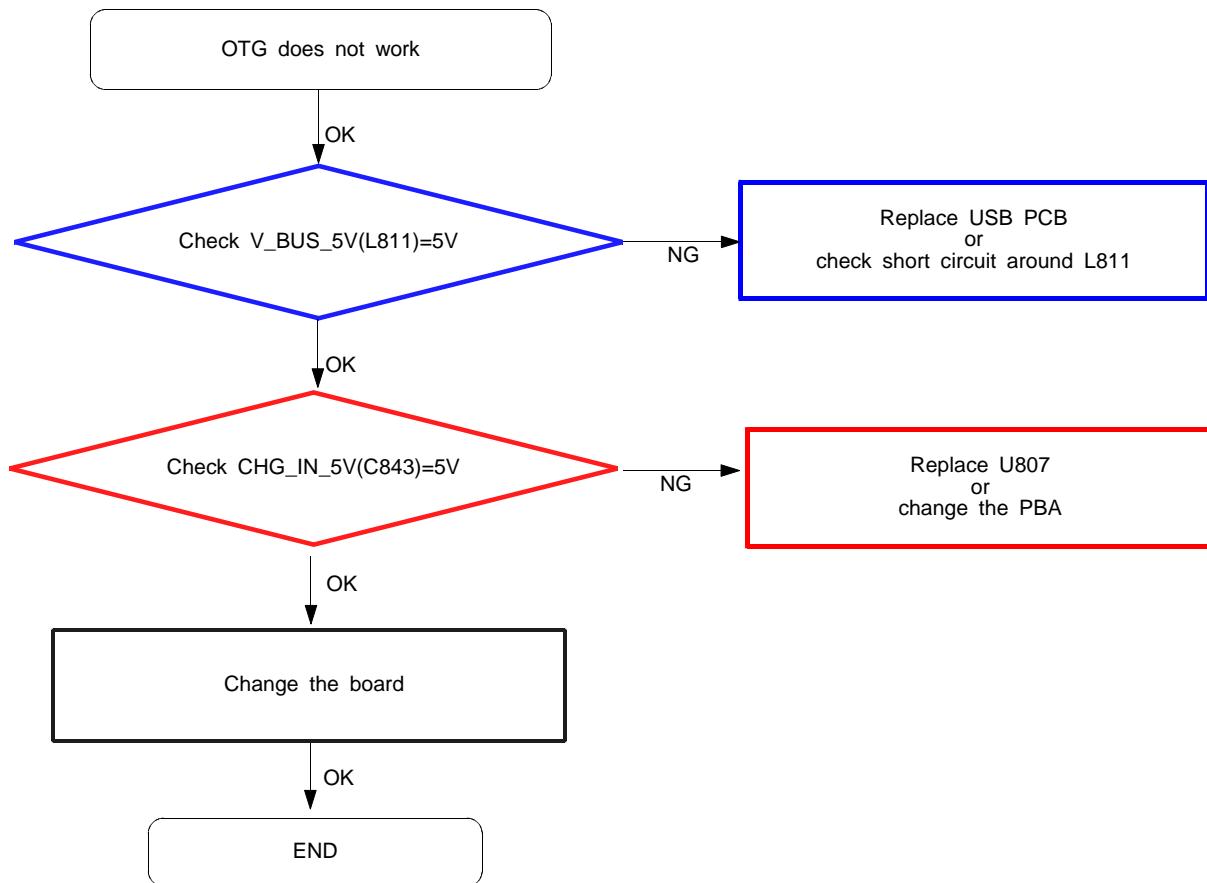
8-3-5. Charging Part



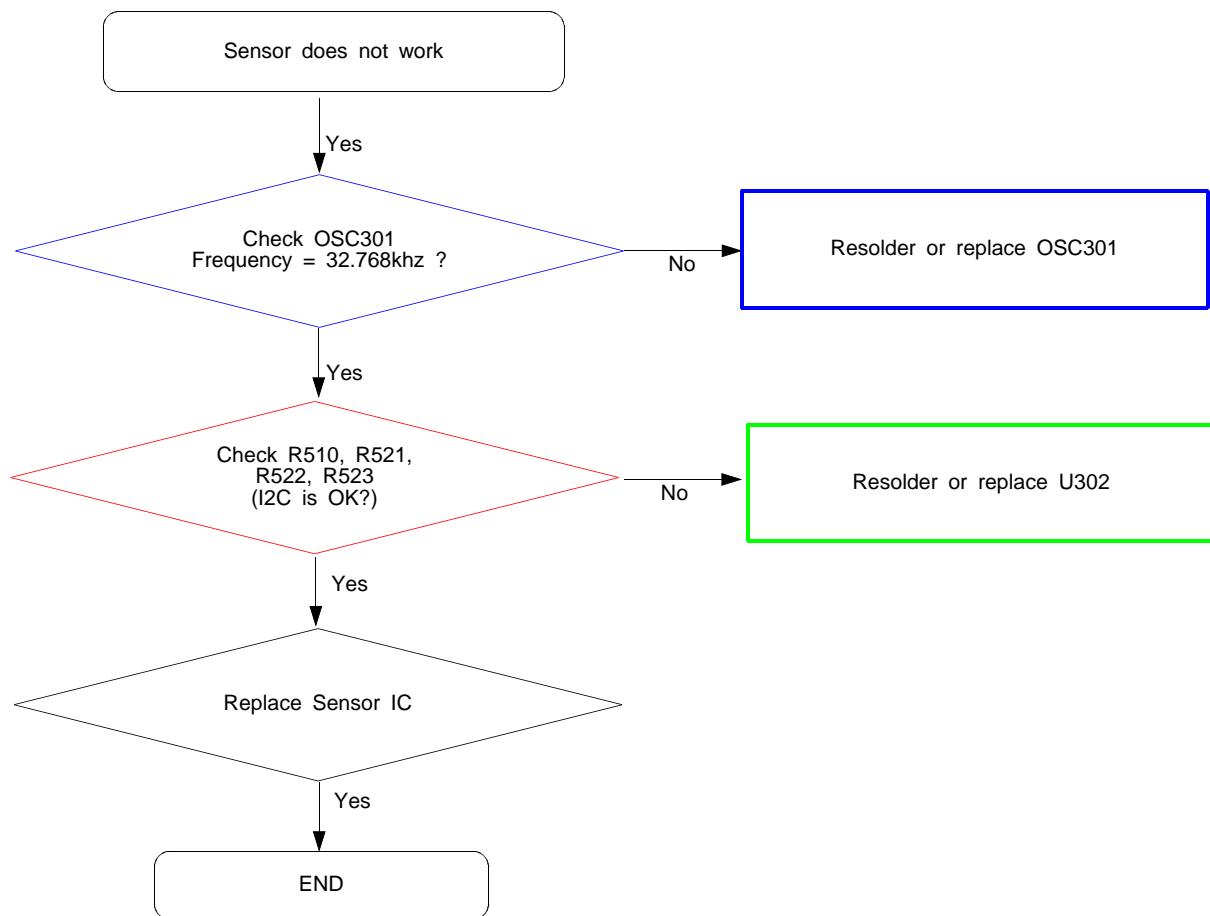


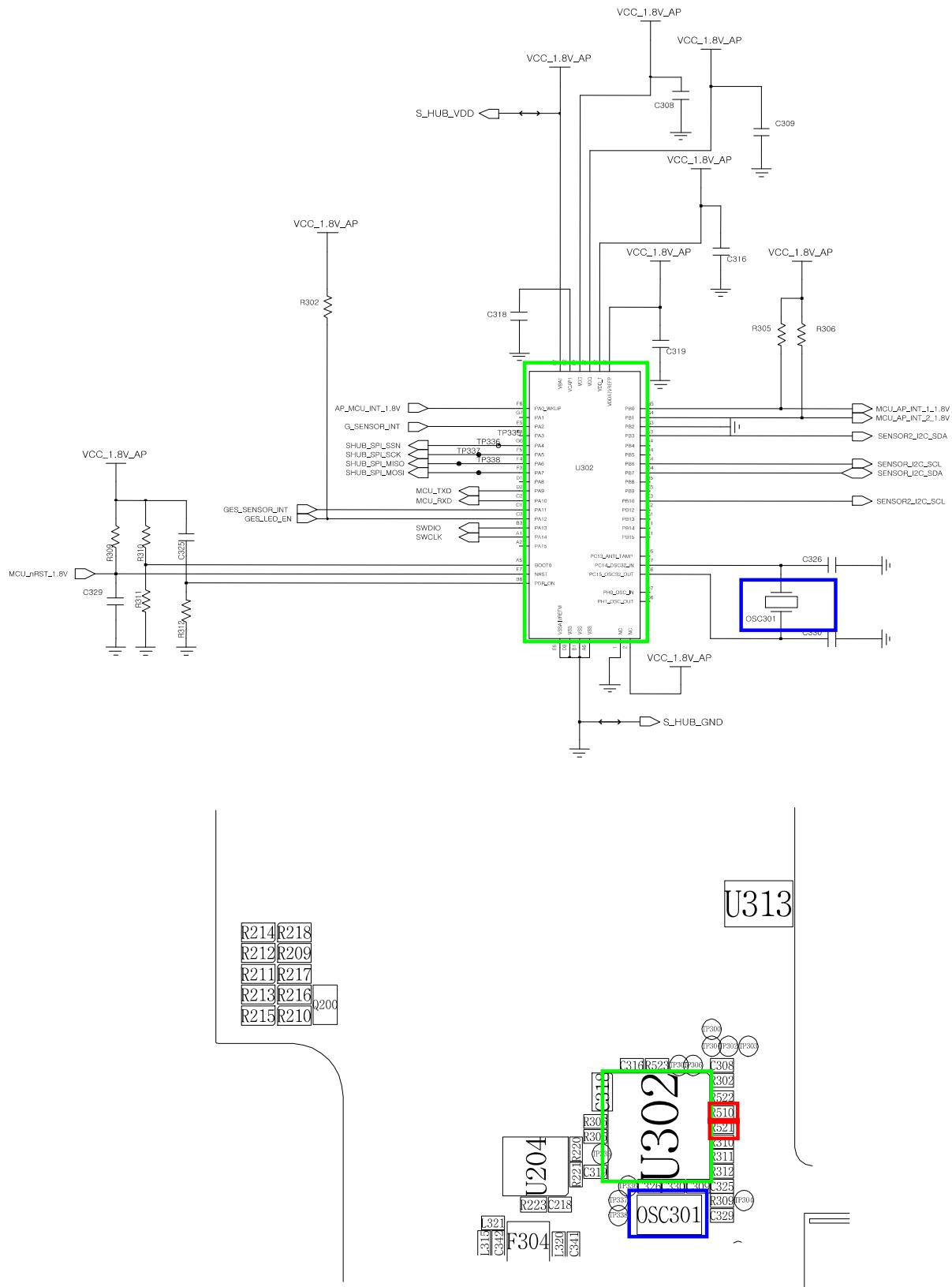


8-3-6. OTG

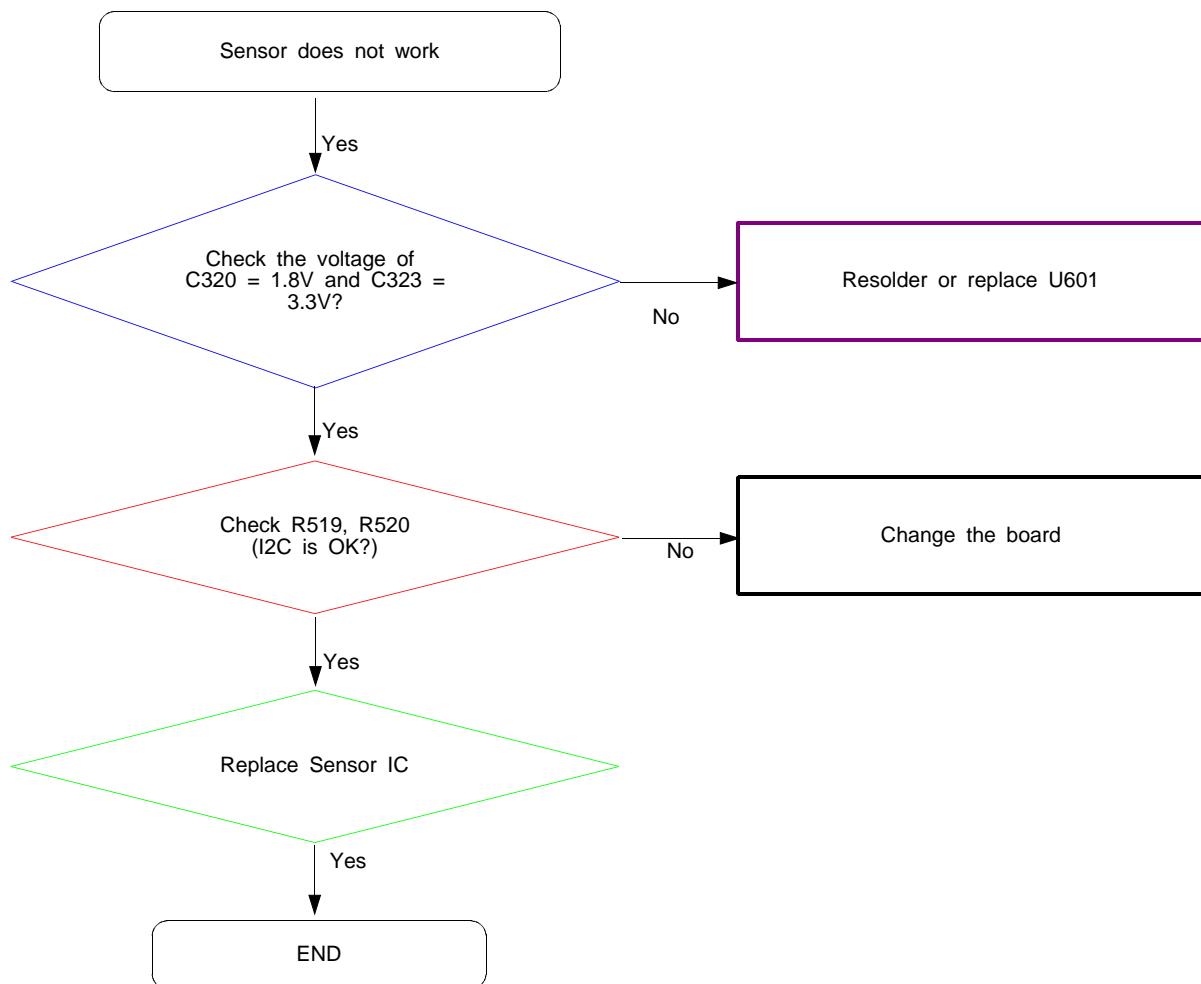


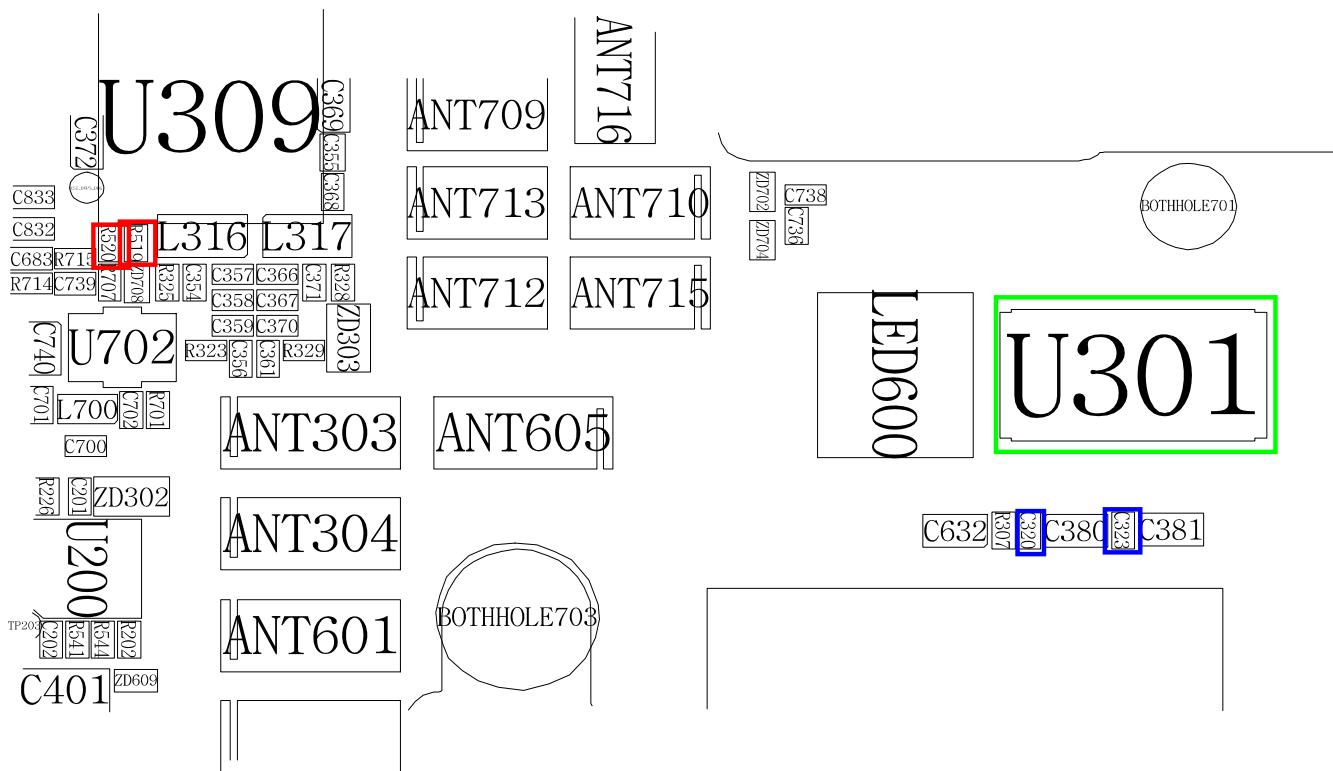
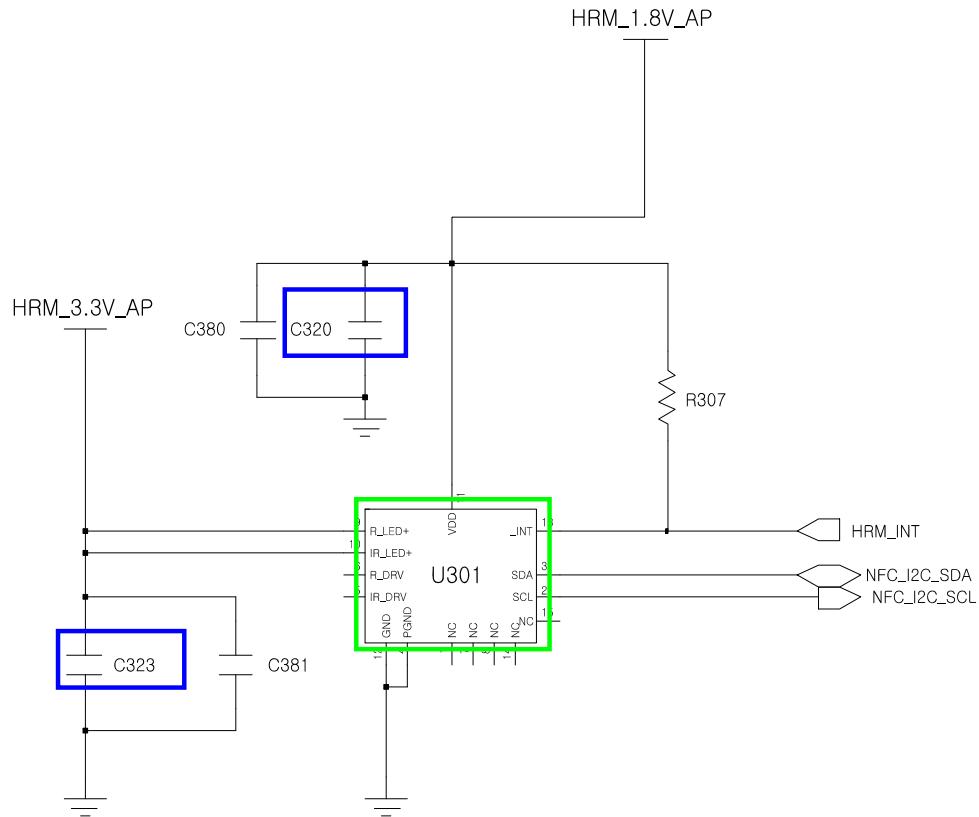
8-3-7-1. Sensor - Accelerometer, Barometer, Gyro, Gesture, Proximity, RGB, Magnetic



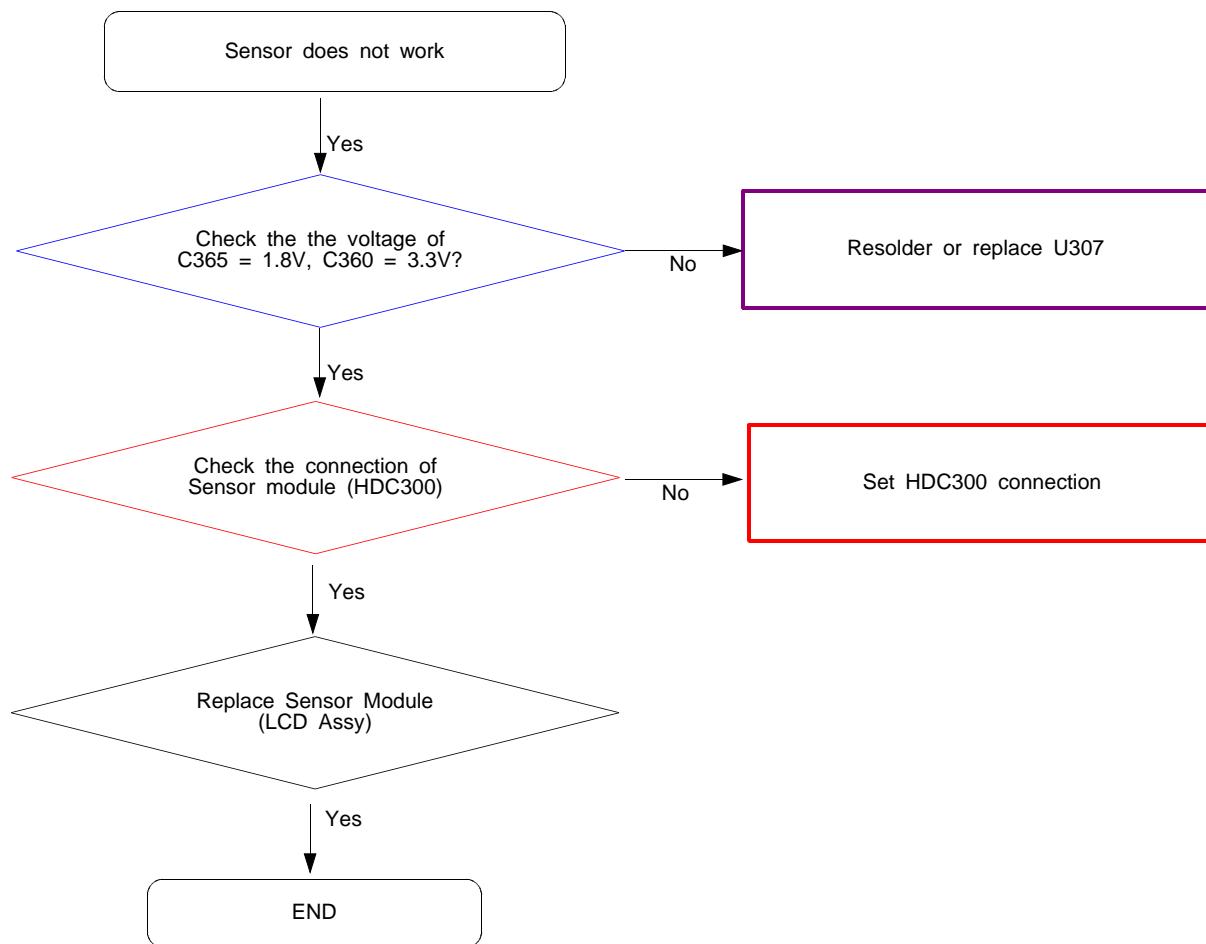


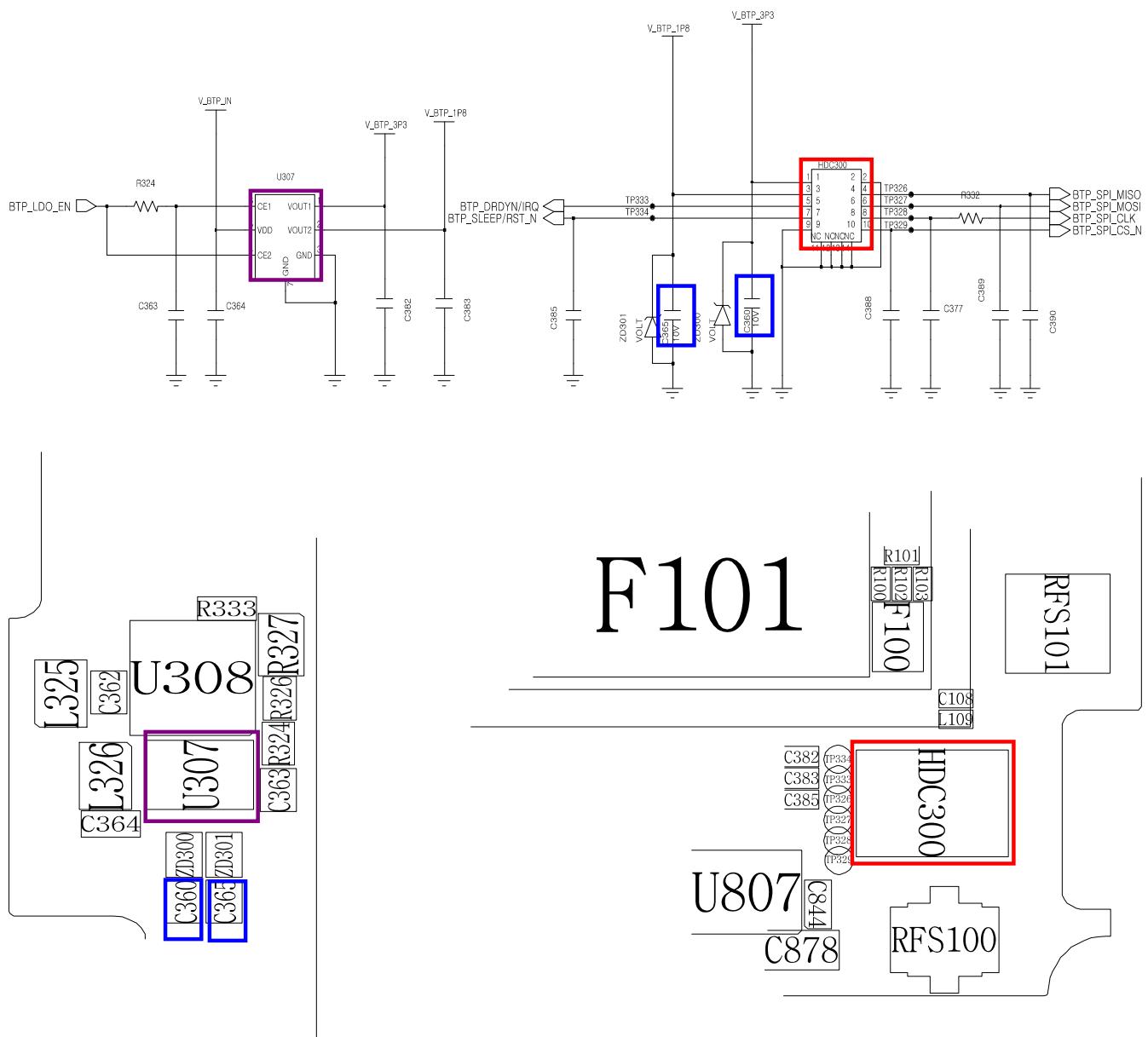
8-3-7-2. Sensor - HRM





8-3-7-3. Sensor - Fingerprint





※ CAUTION

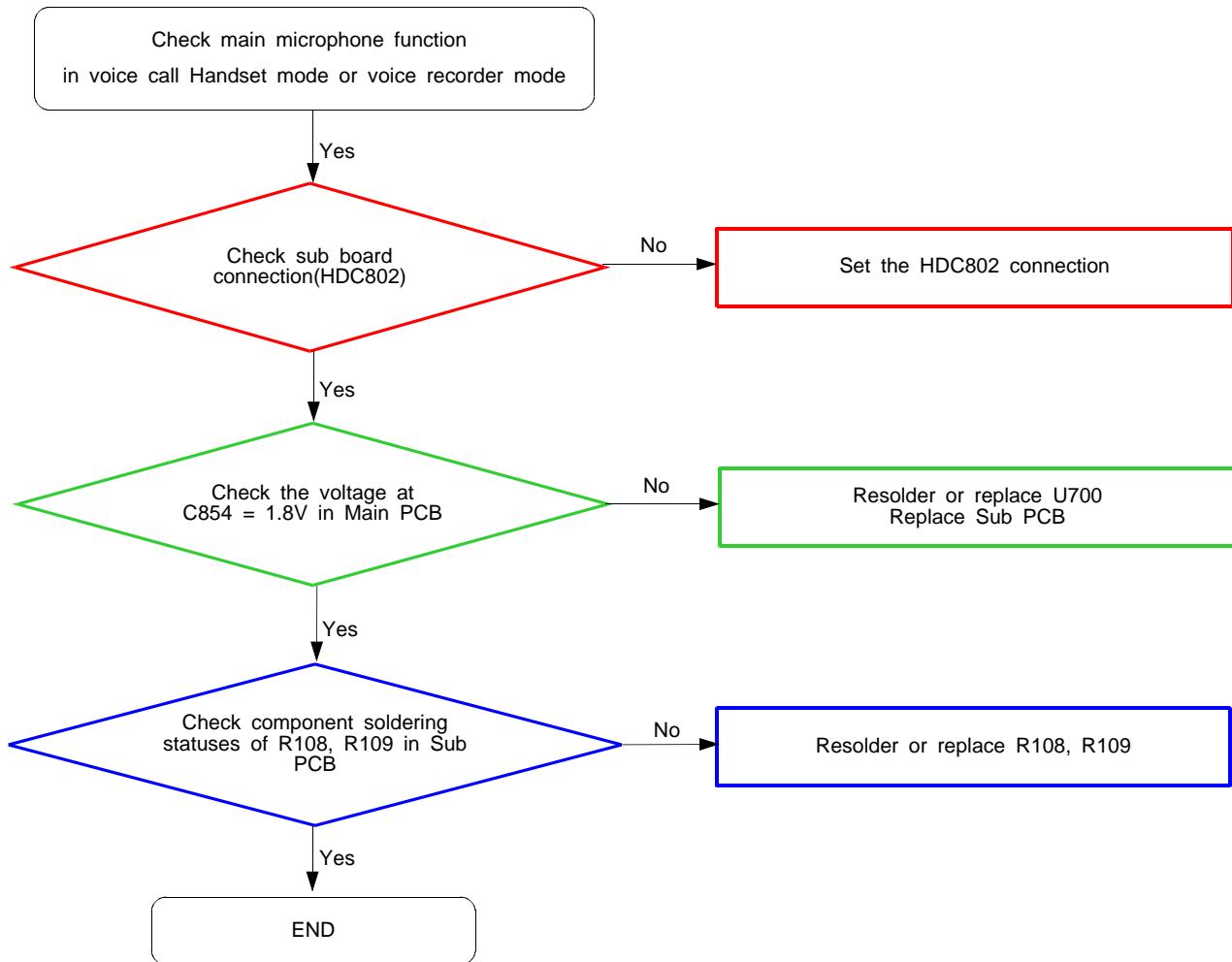
Temperature/Humidity sensor should not be directly exposed to the heat-gun when you replace USB connector, because excessive heat can cause abnormal operation of the sensor. The temperature that Temperature/Humidity sensor sees should not exceed 260°C. Use proper heat-shielding material to protect Temperature/Humidity sensor.

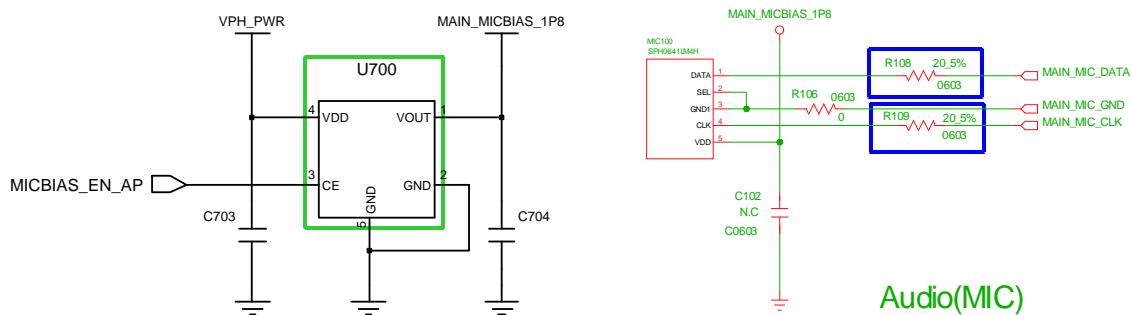
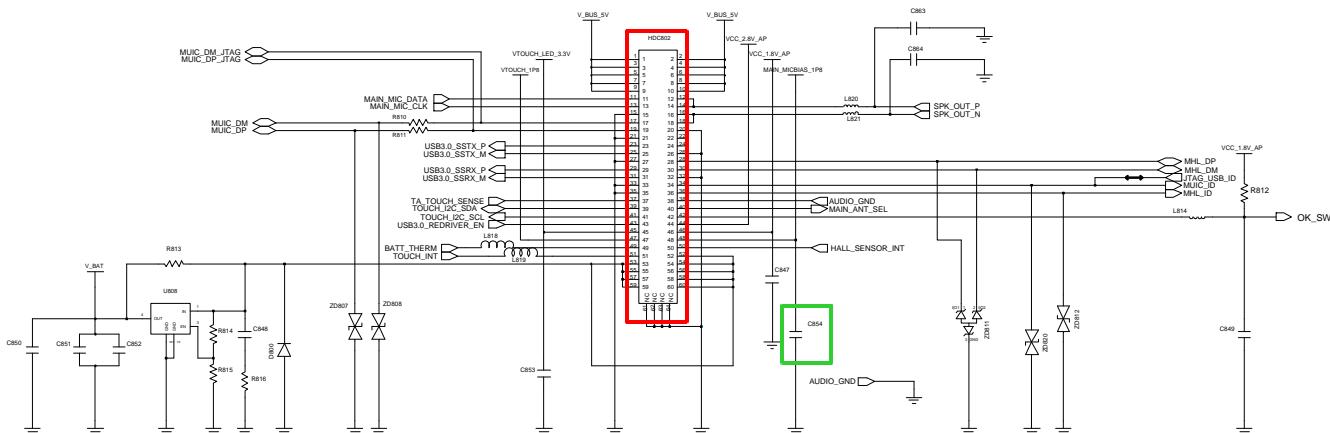
※ Temp/Humi Sensor After Repair

- 1) Keypad : press *#0*#
- 2) Select "Sensor"
- 3) Select "Temp-Humid"
- 4) Read the COMP data (ignore the RAW data)

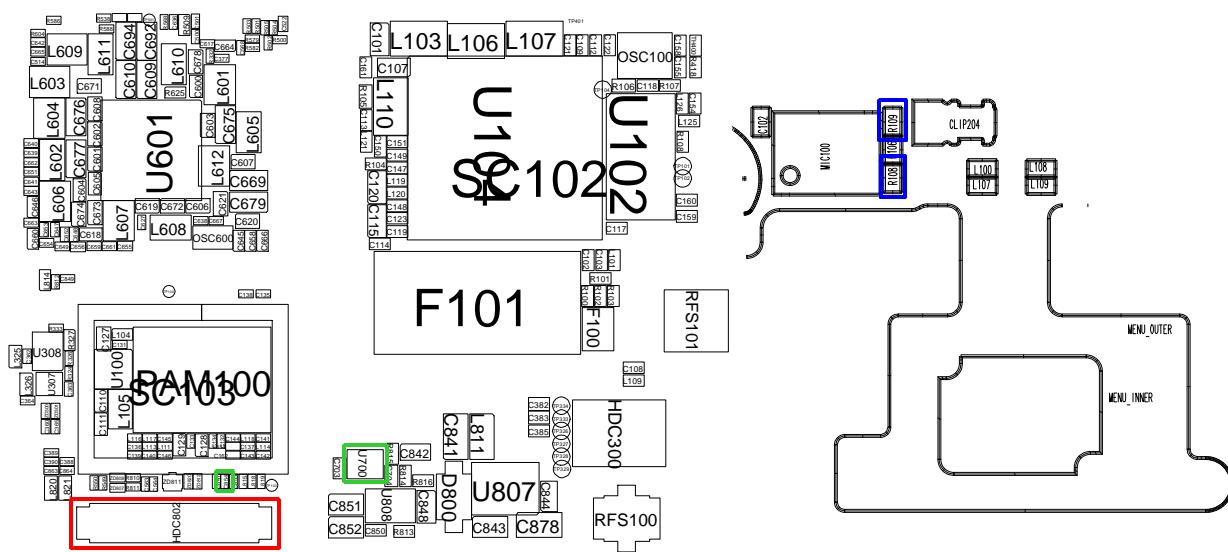


8-3-8-1 Microphone Part - Main MIC

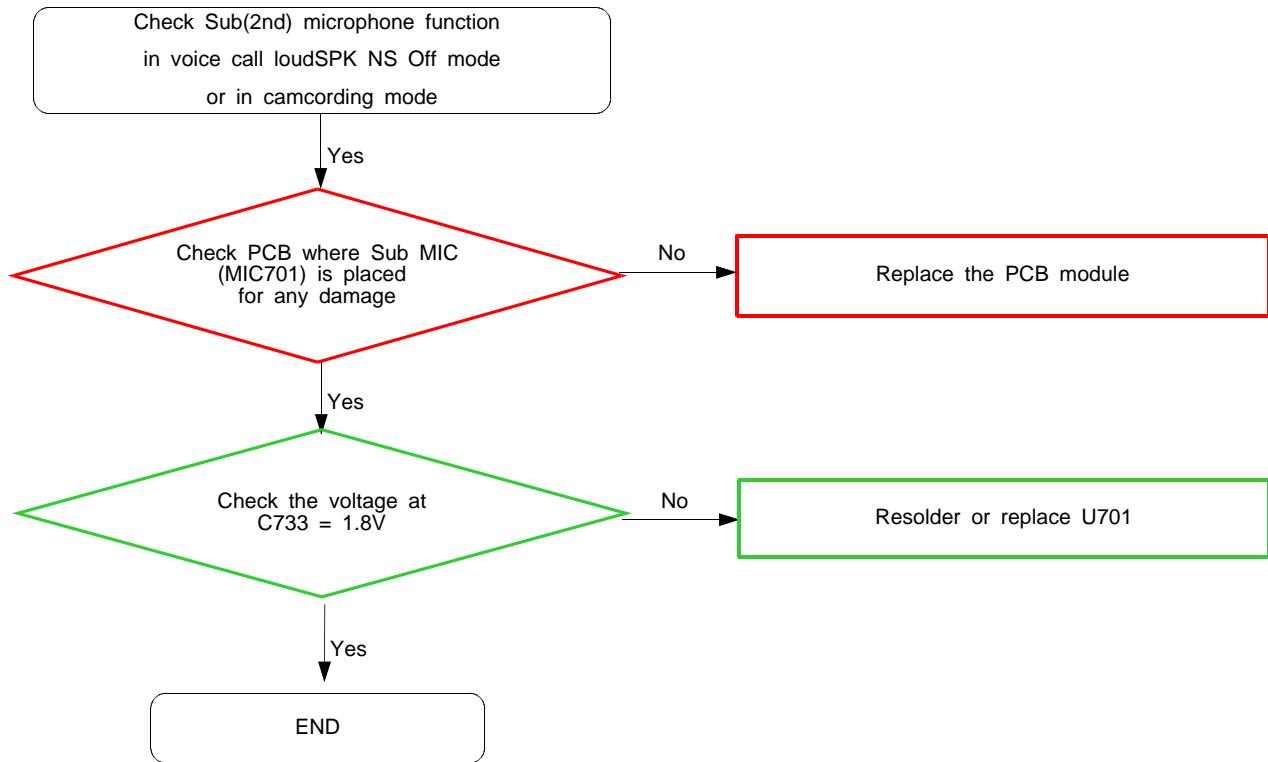


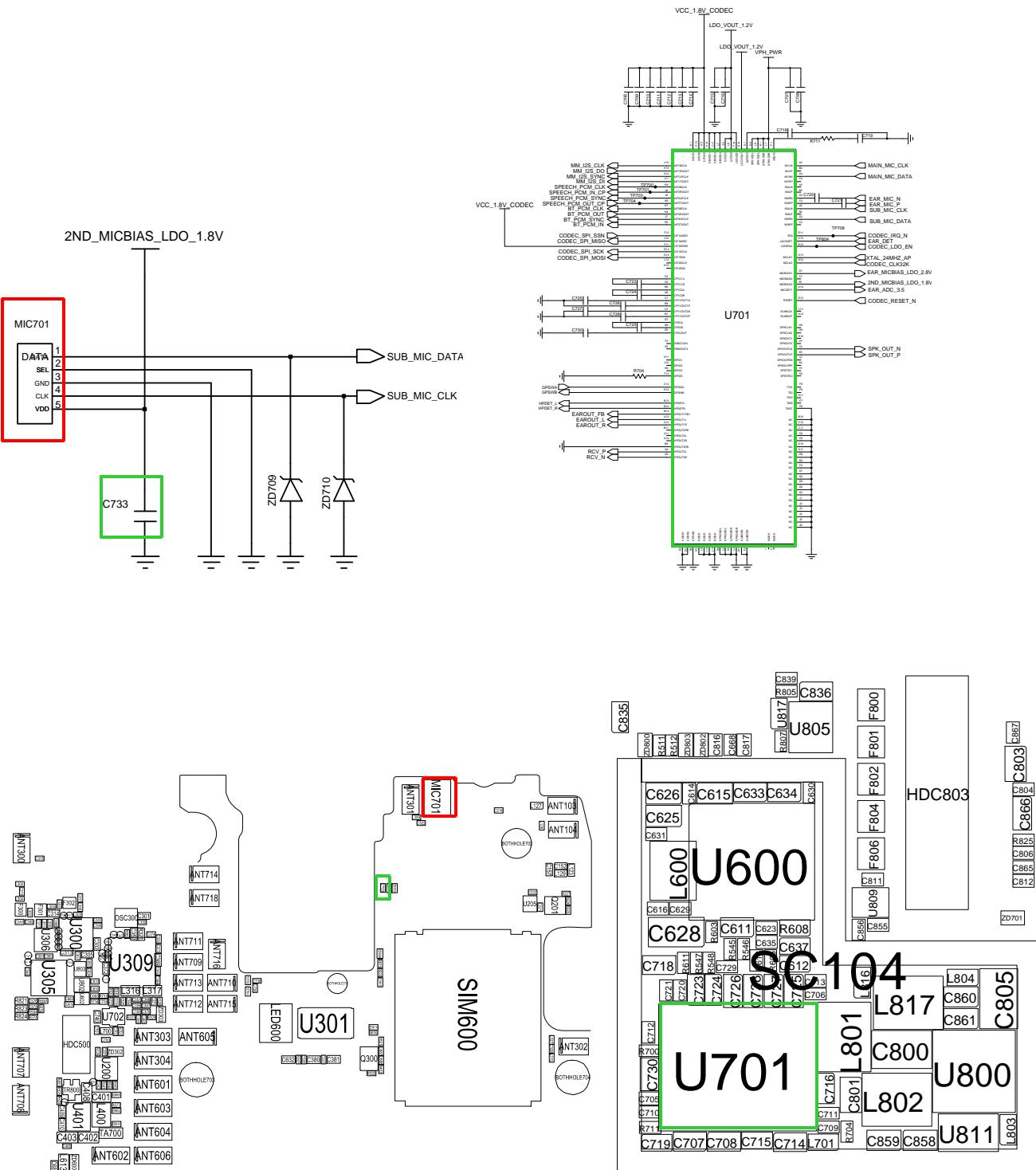


Audio(MIC)

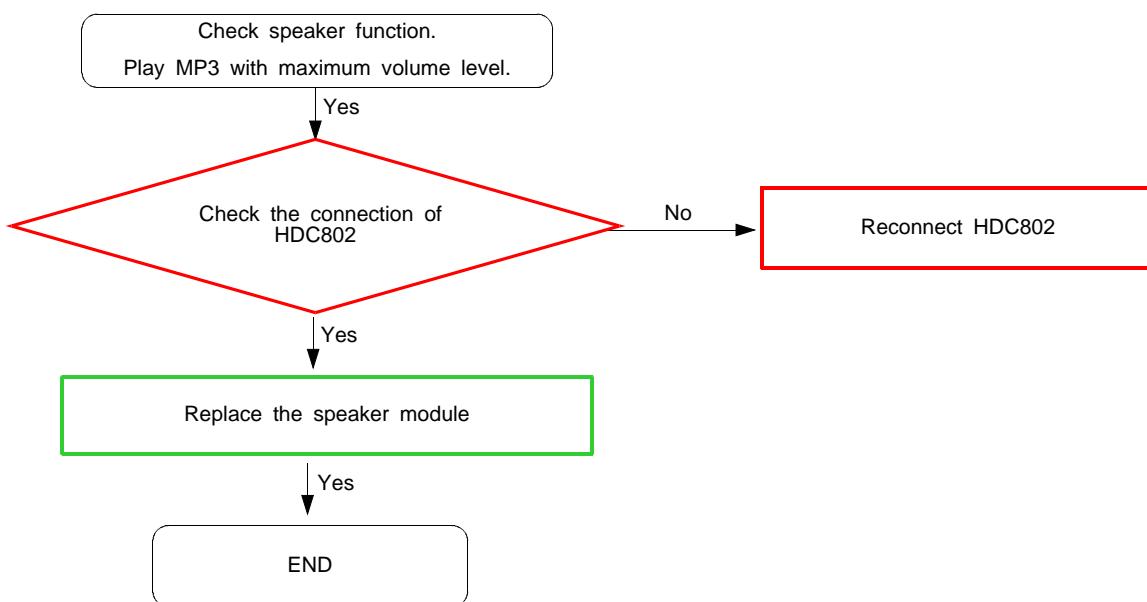


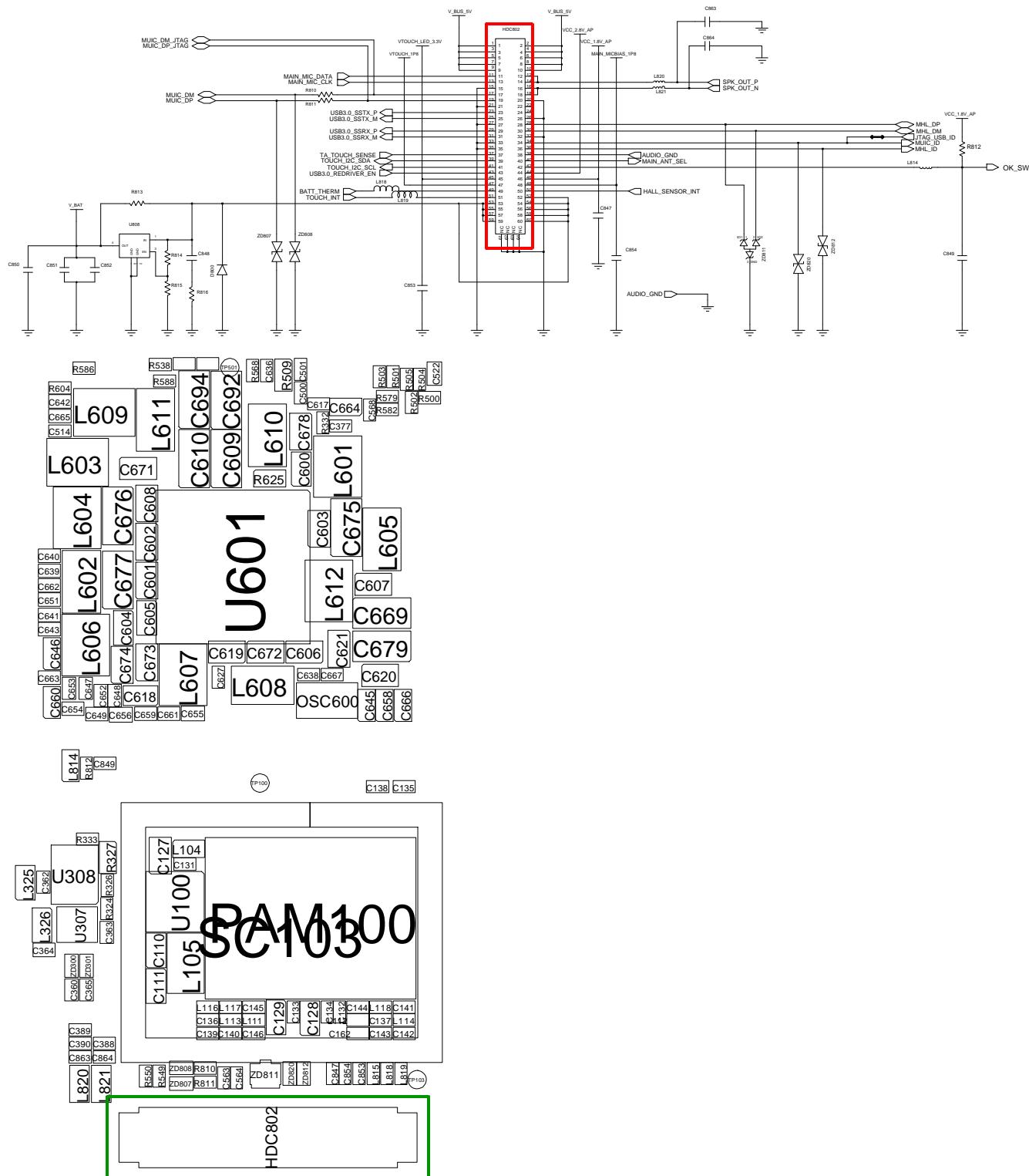
8-3-8-2. Microphone Part - Sub(2nd) MIC



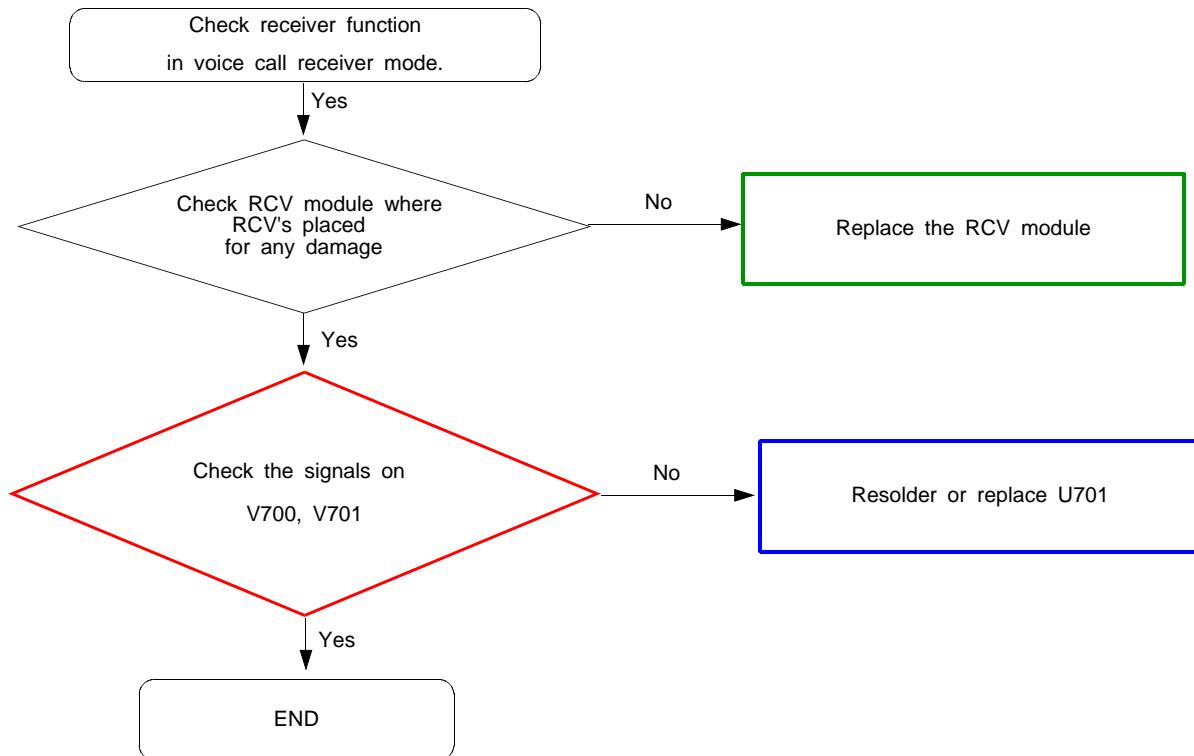


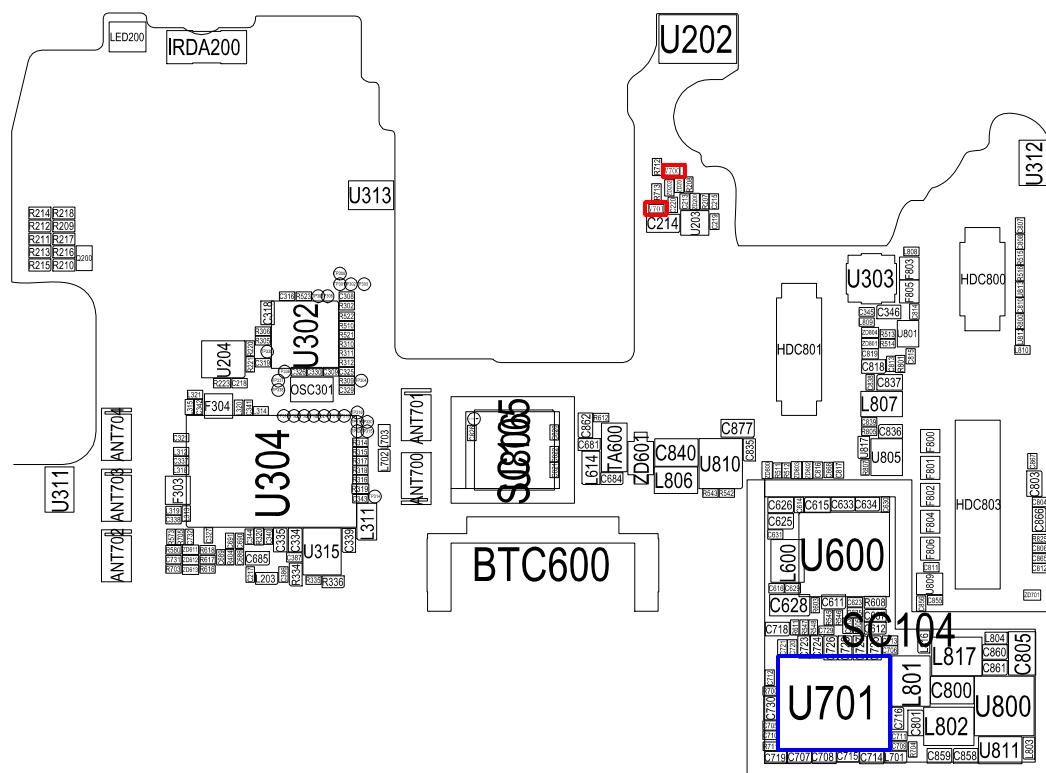
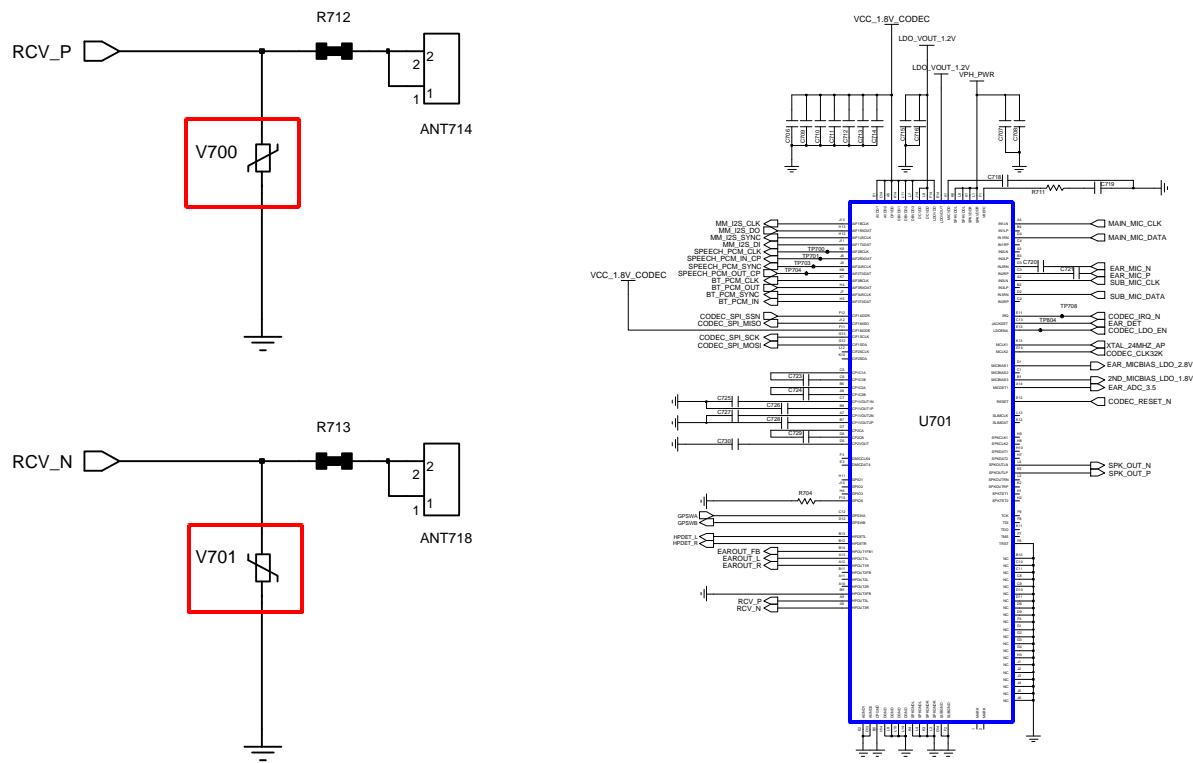
8-3-9. Speaker Part



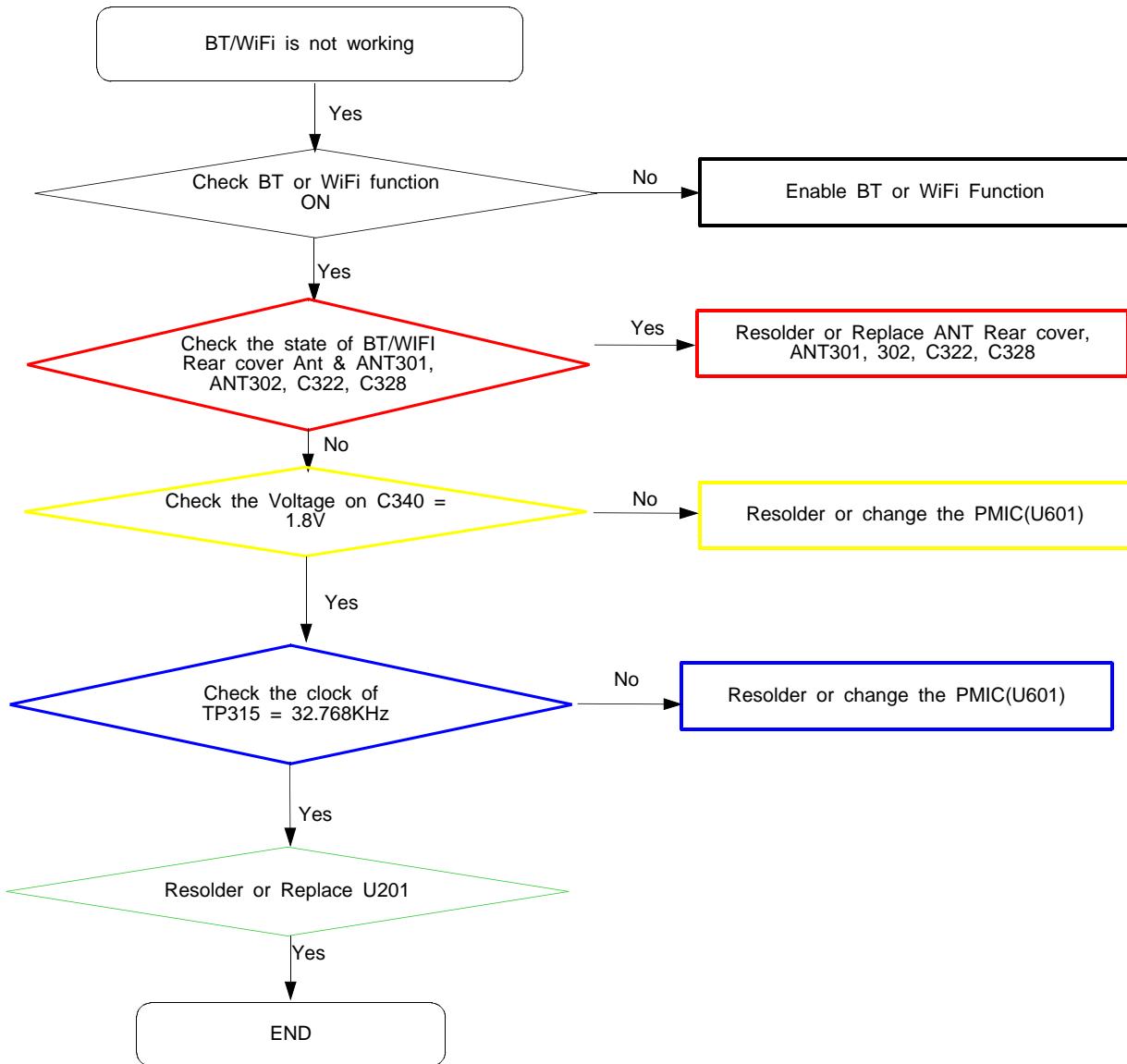


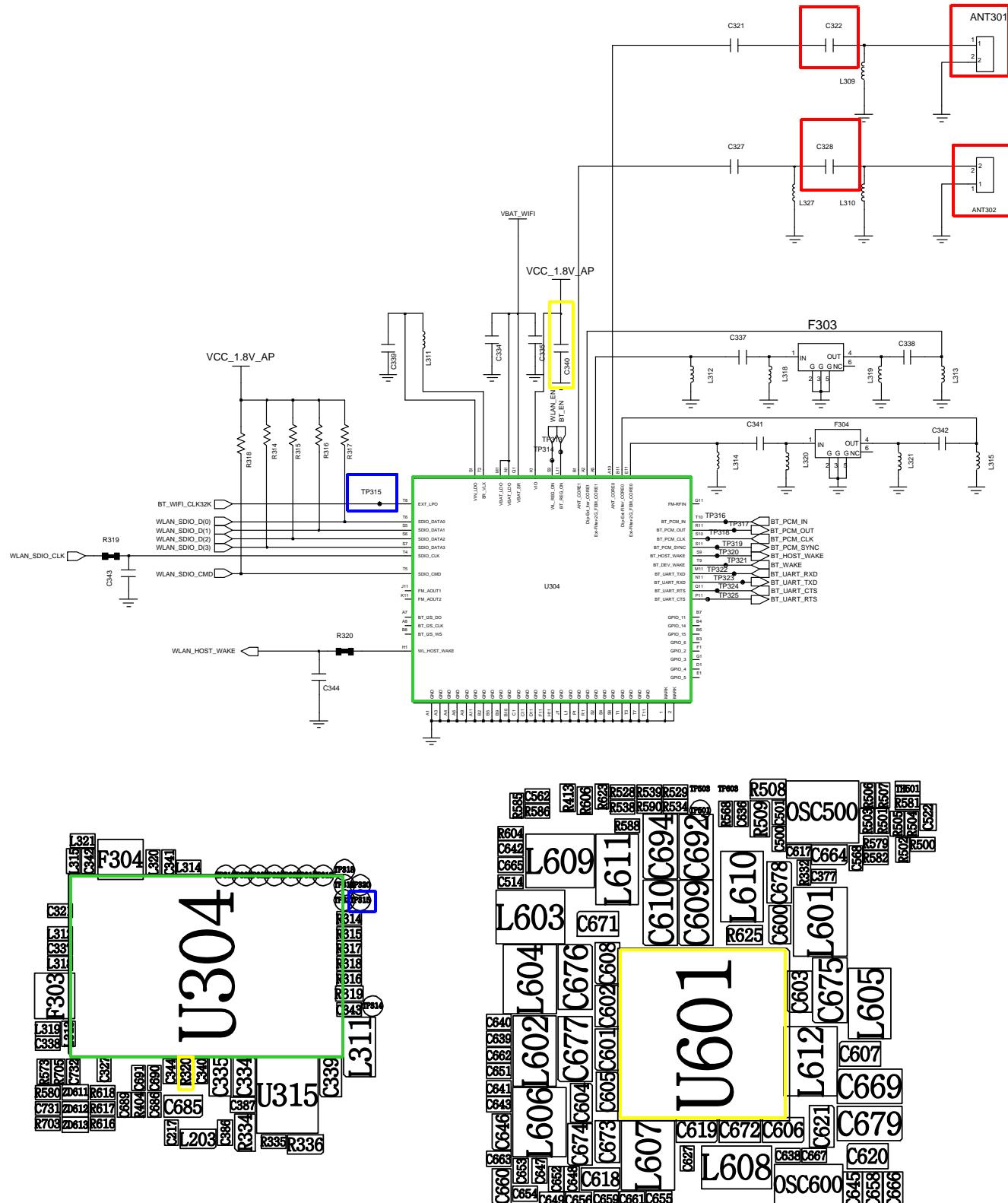
8-3-10. Receiver Part

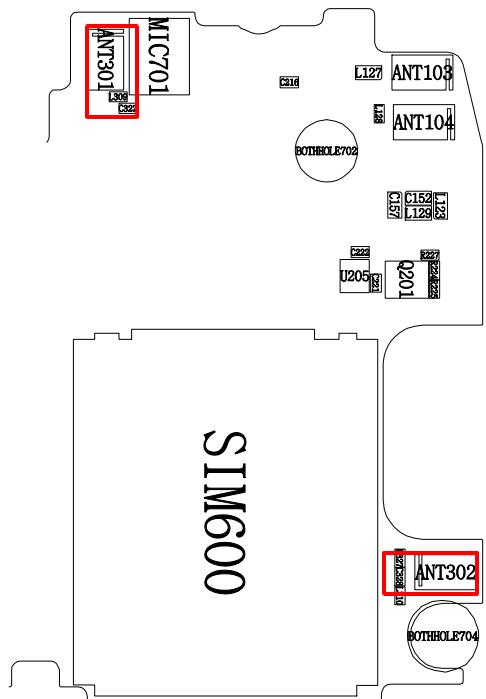




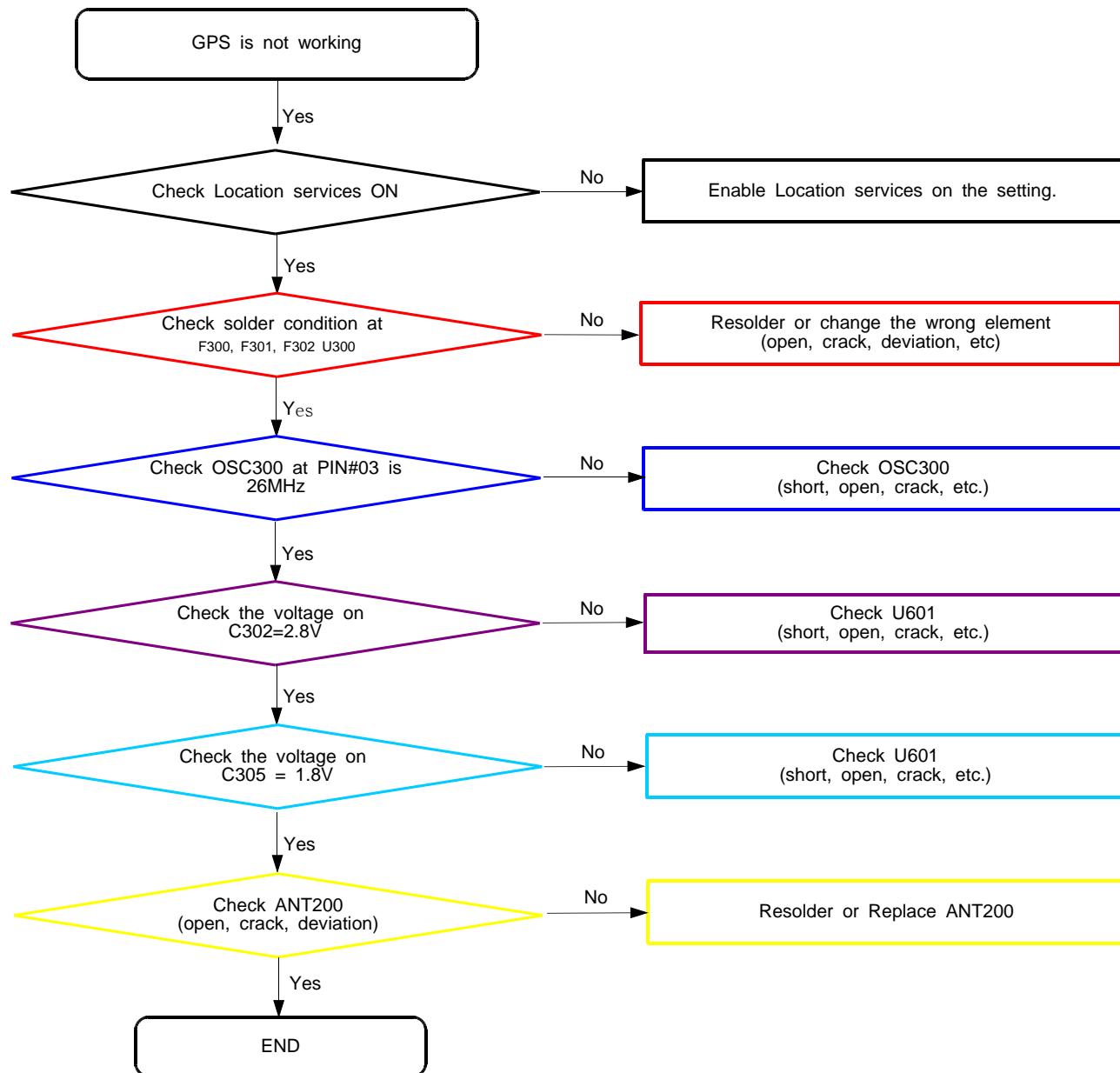
8-3-11. BT/WIFI

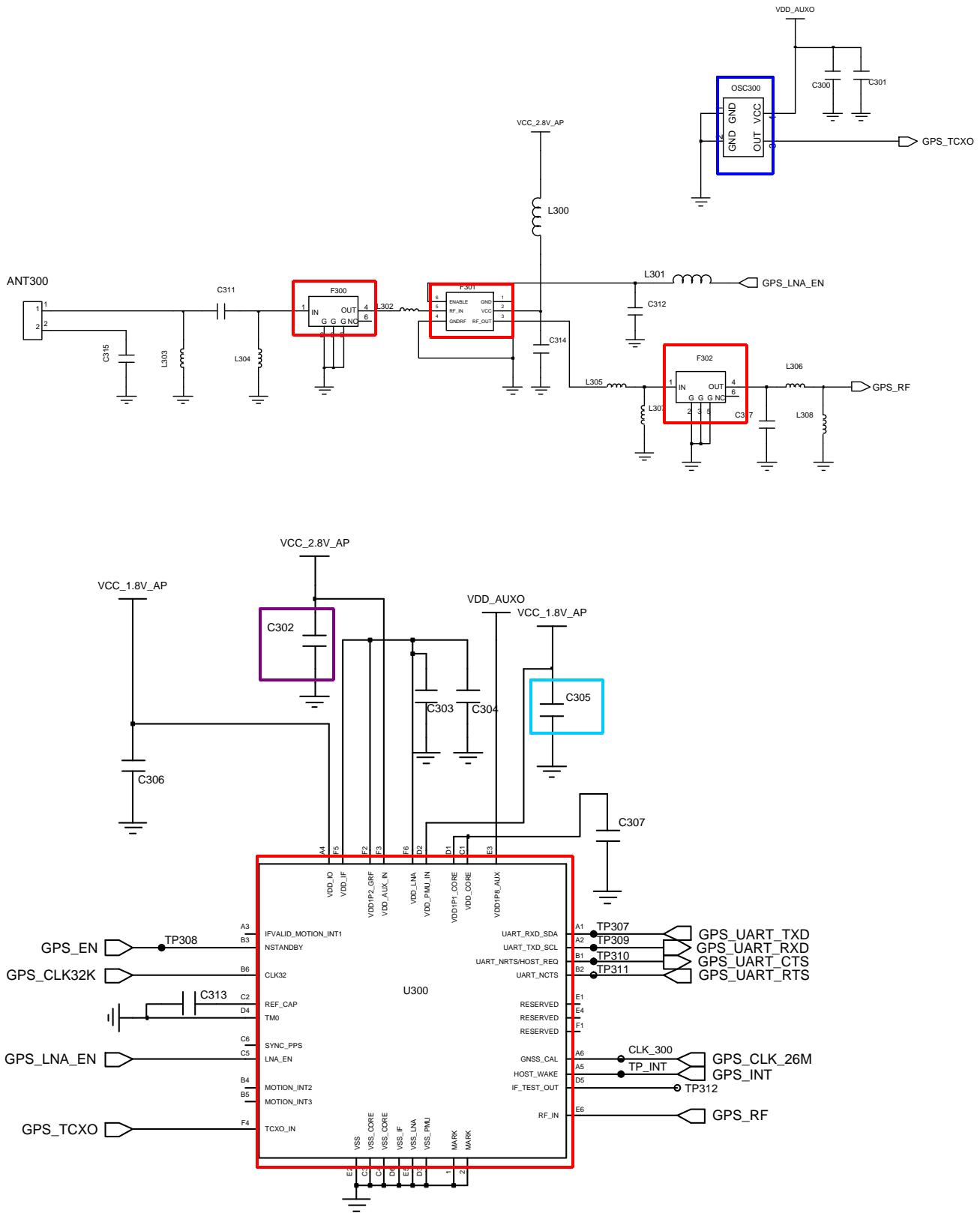


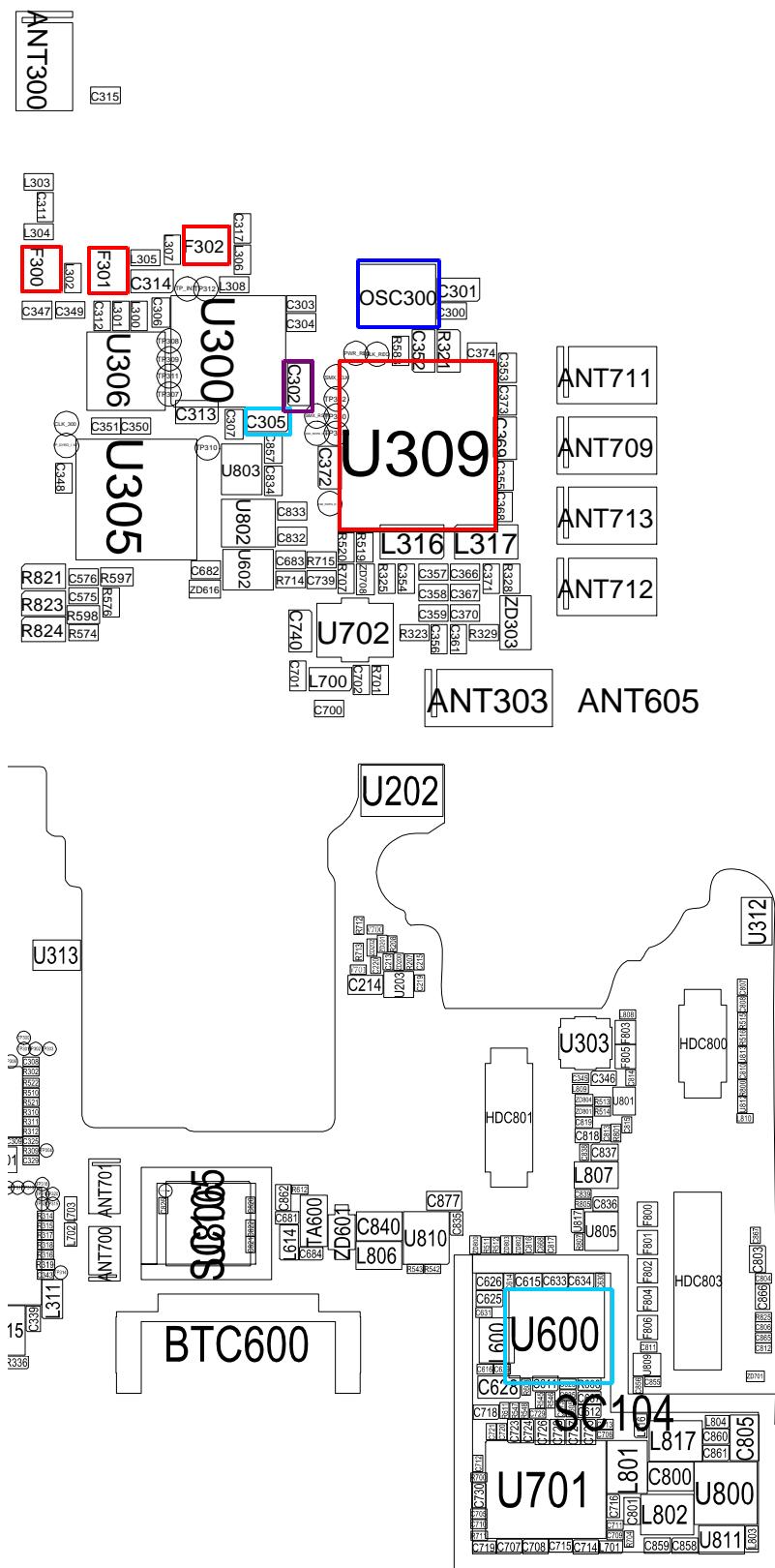




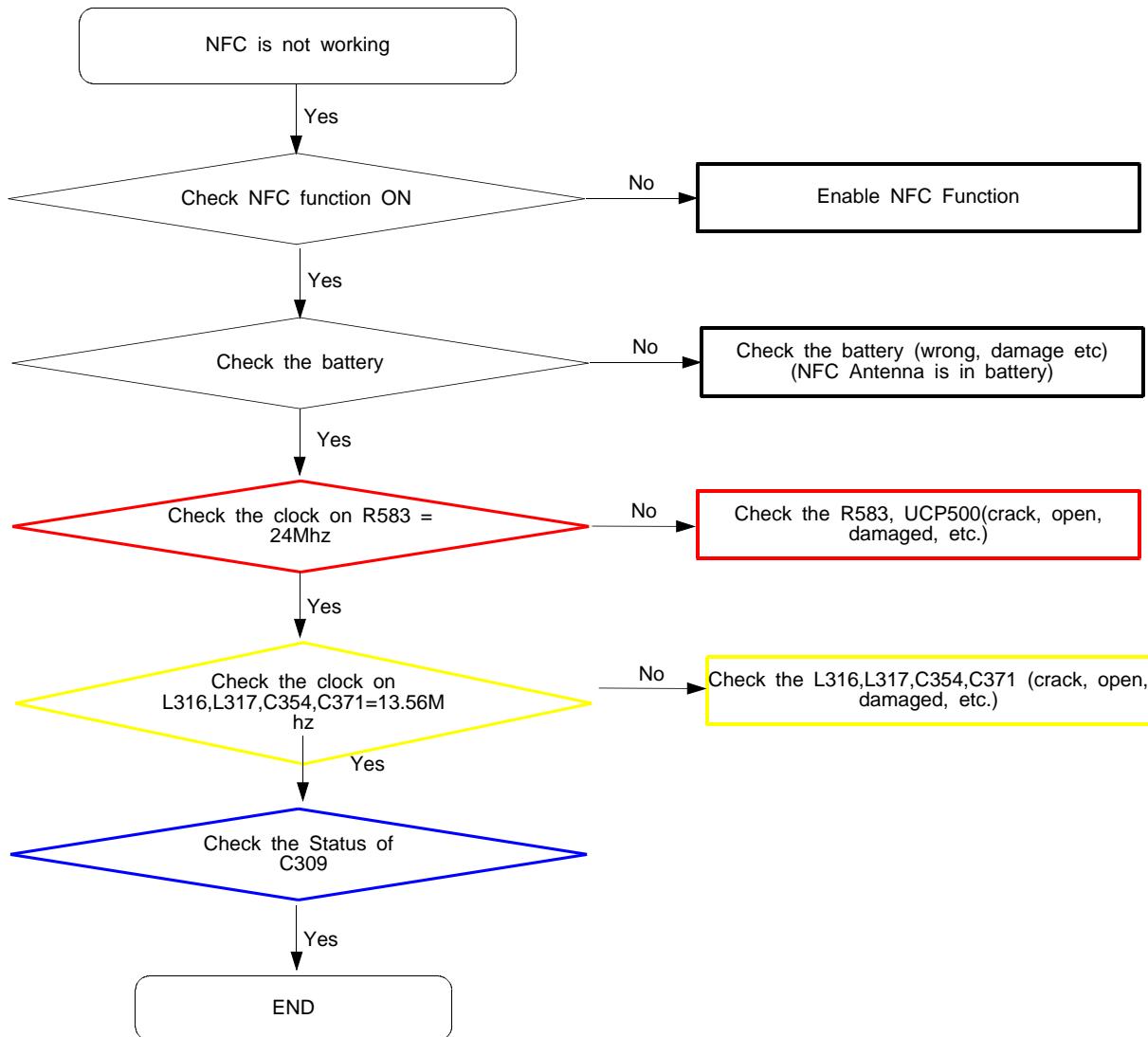
8-3-12. GPS

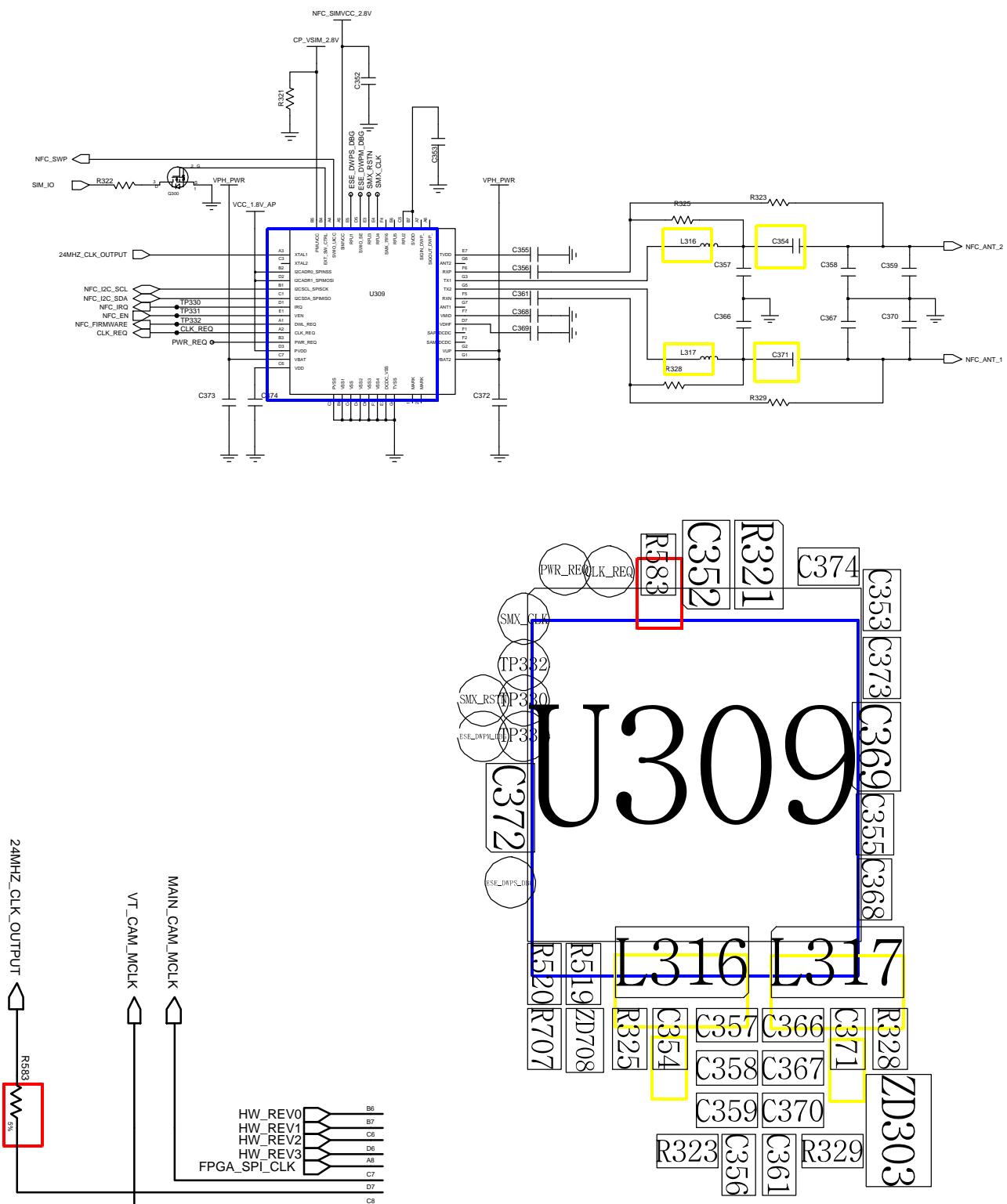




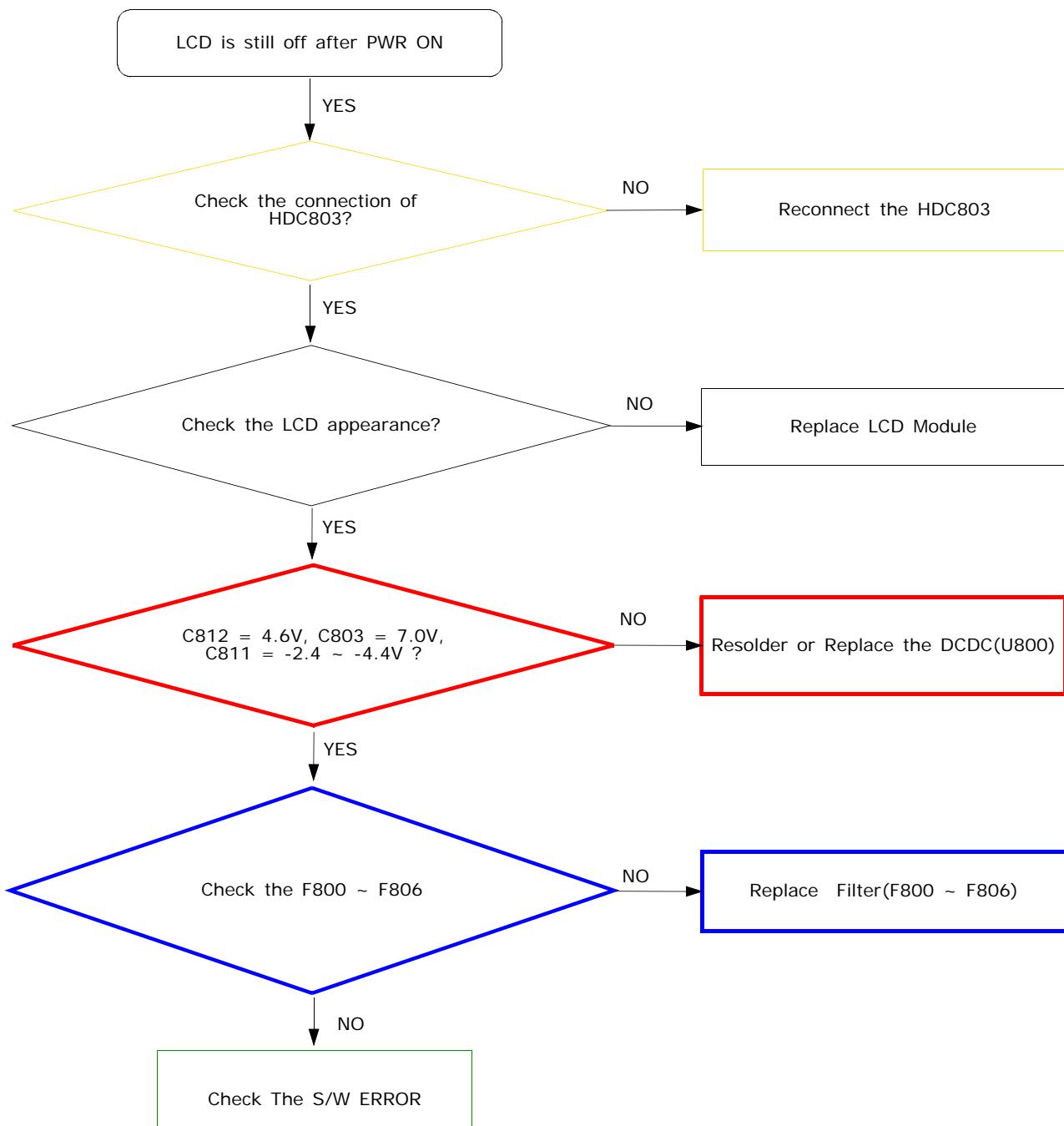


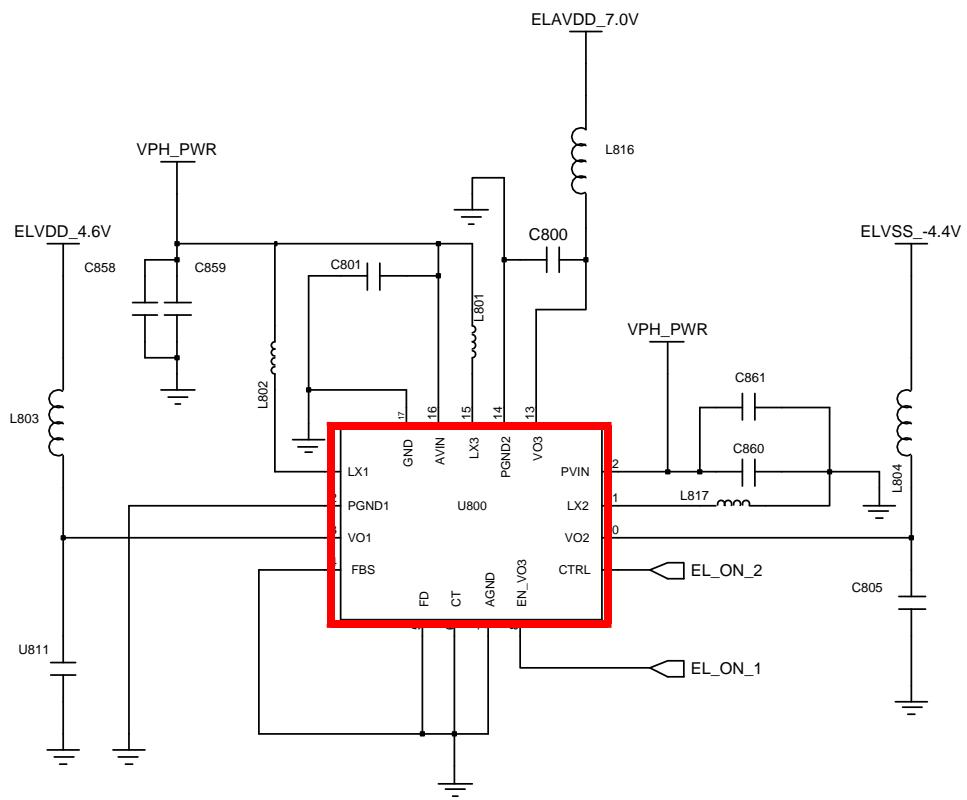
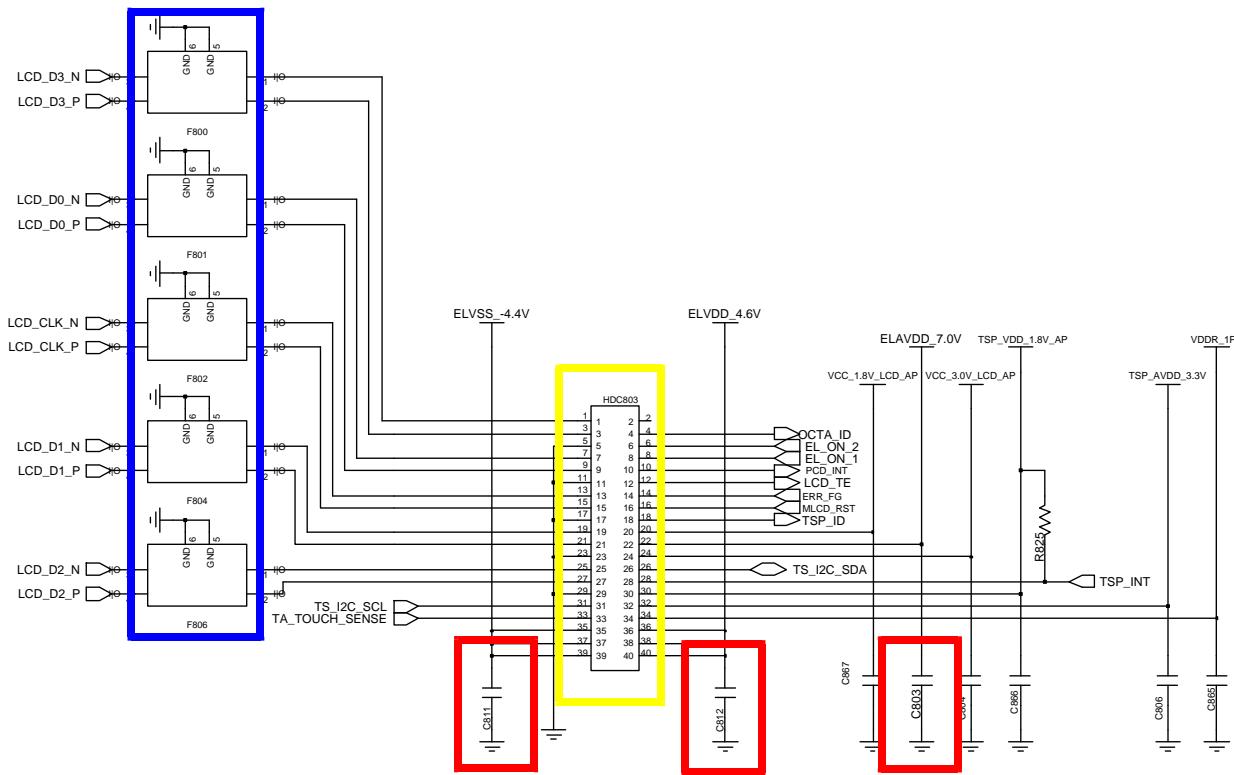
8-3-13. NFC

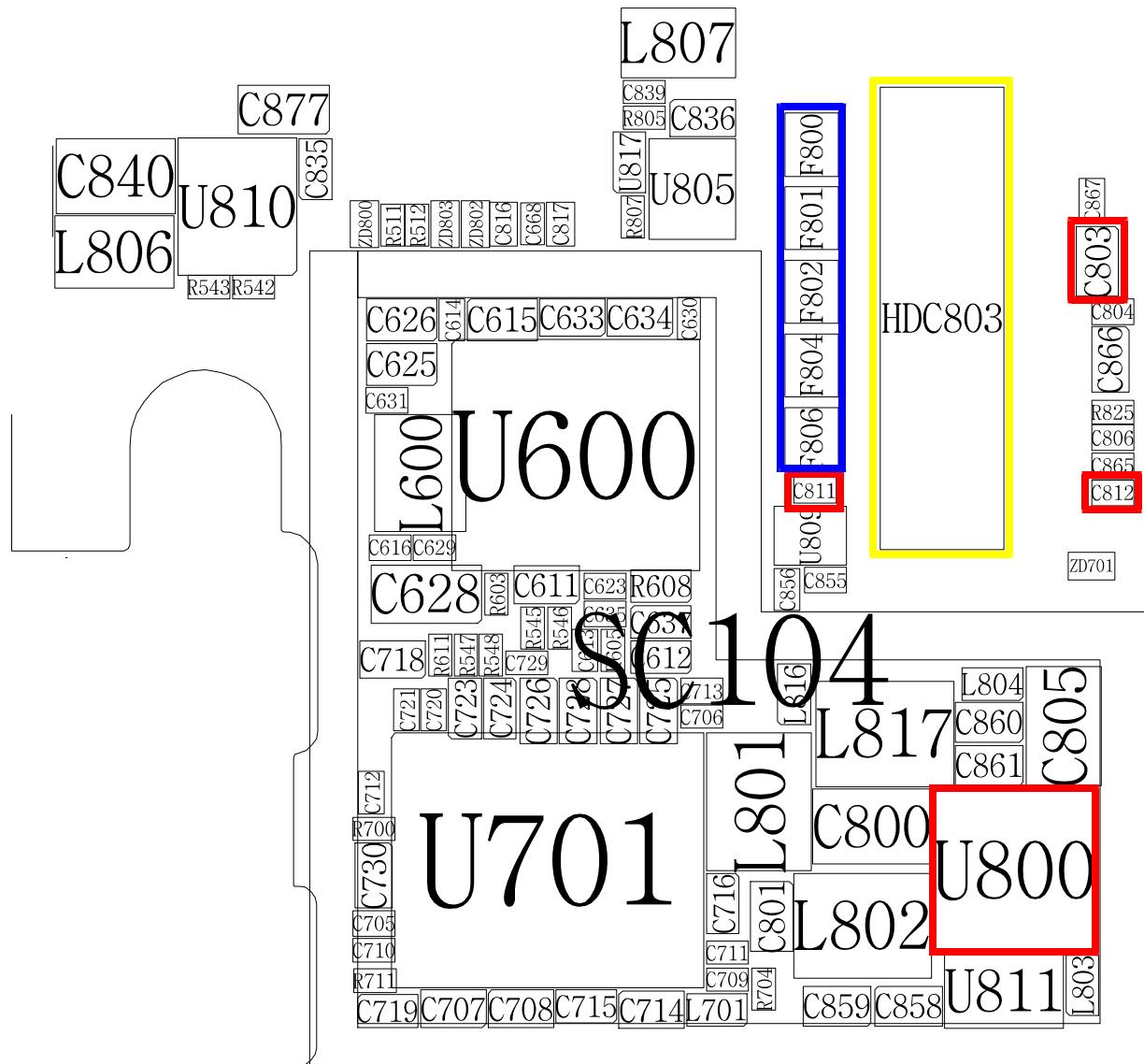




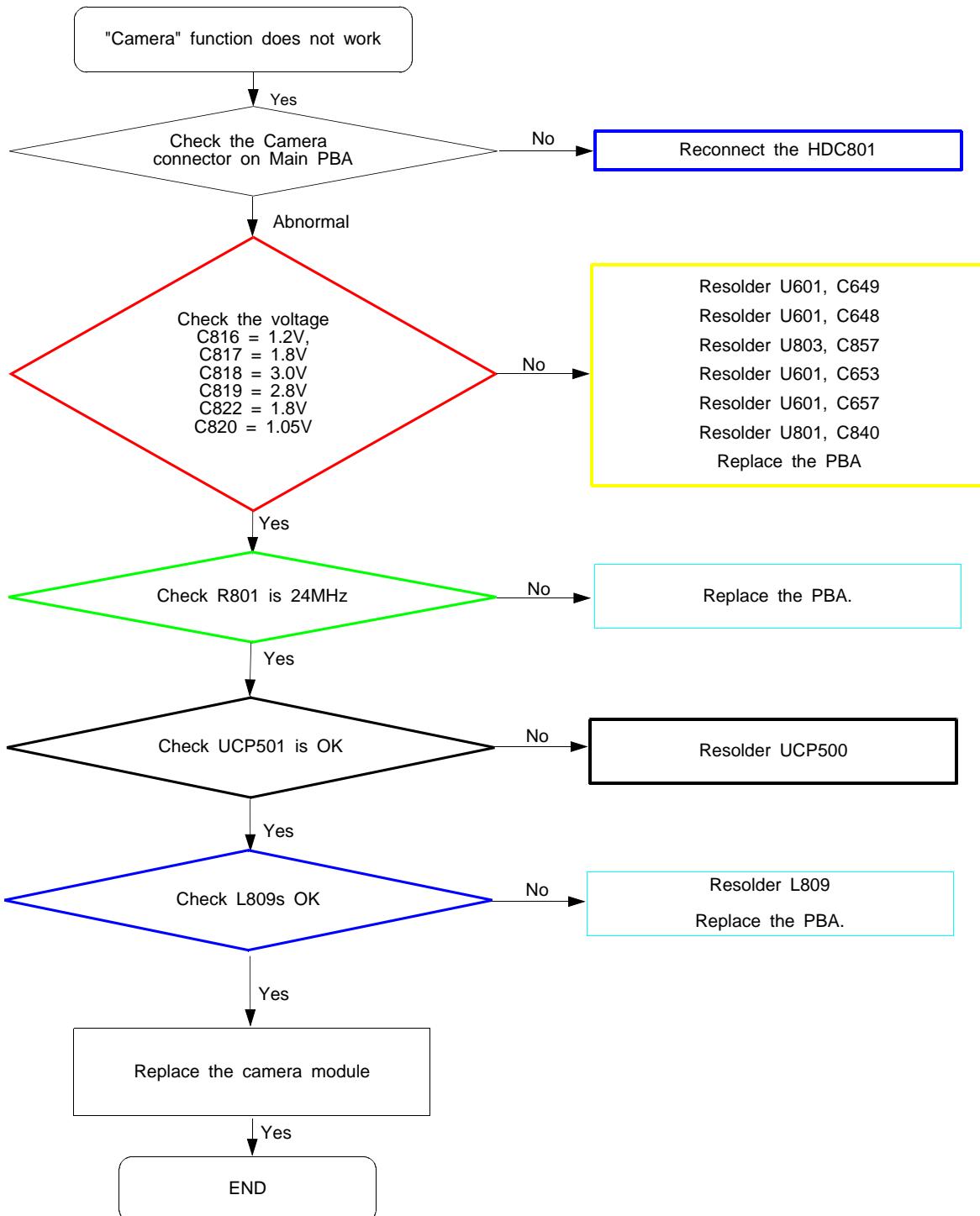
8-3-14. LCD

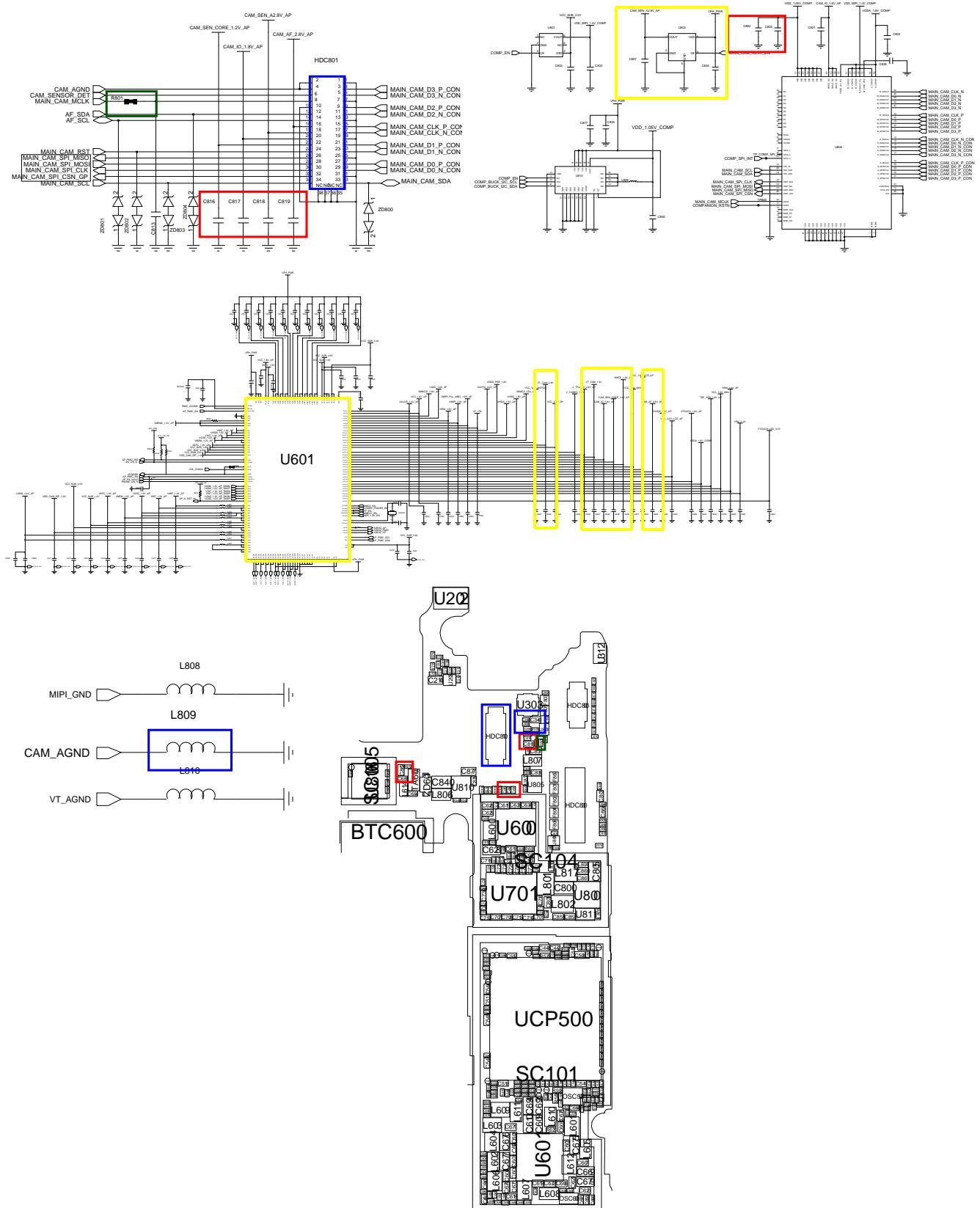




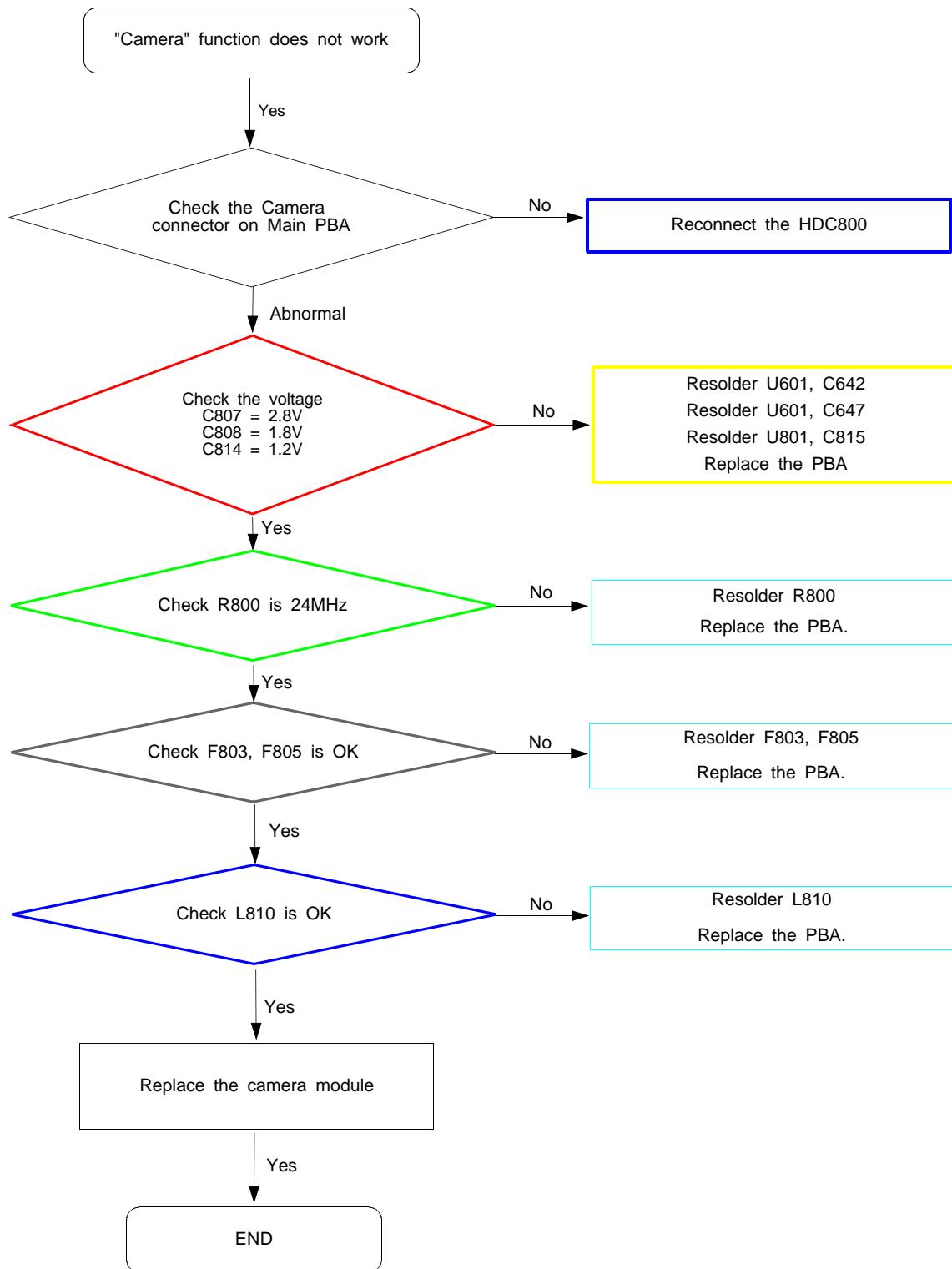


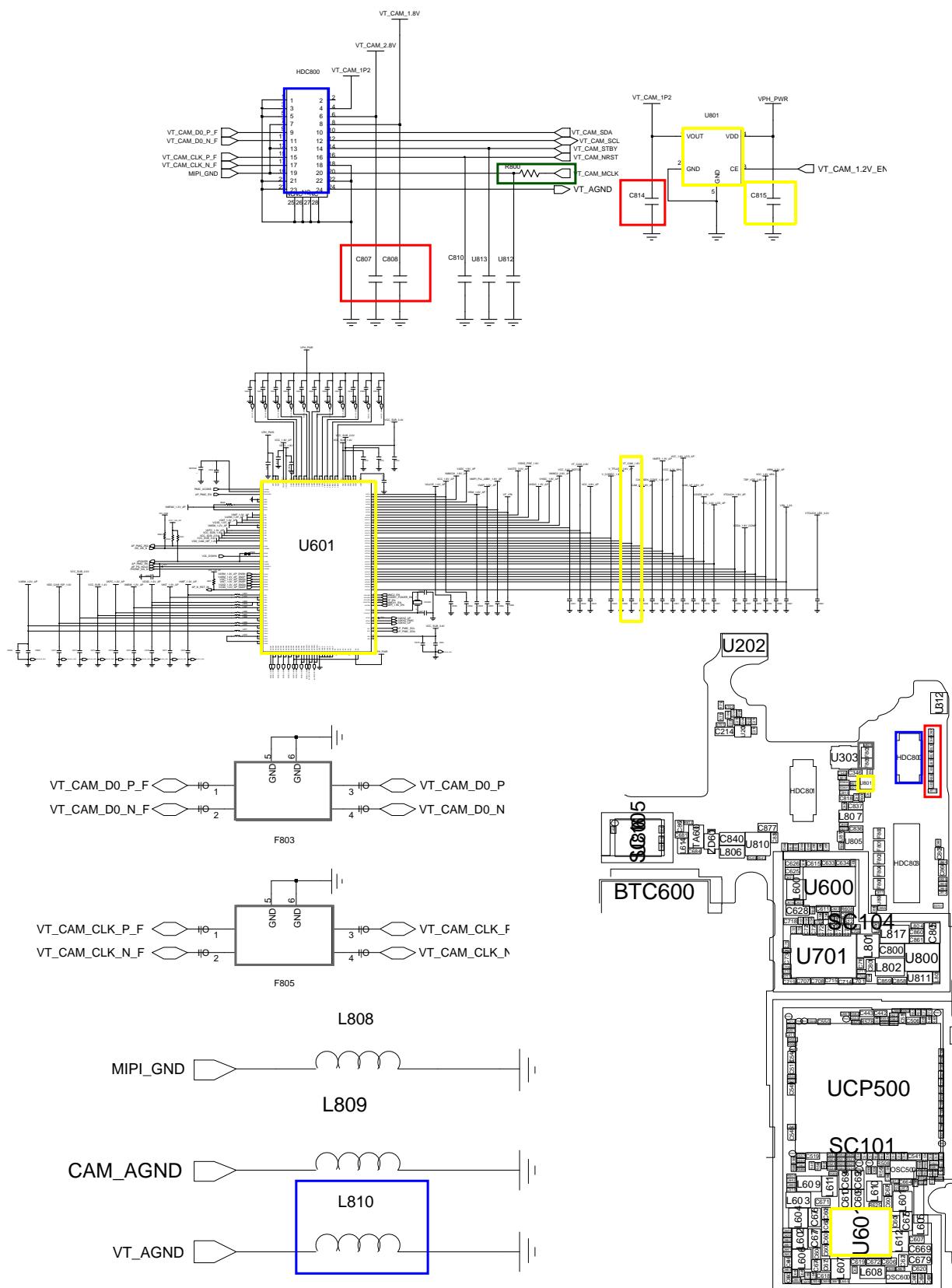
8-3-15. 16M CAM



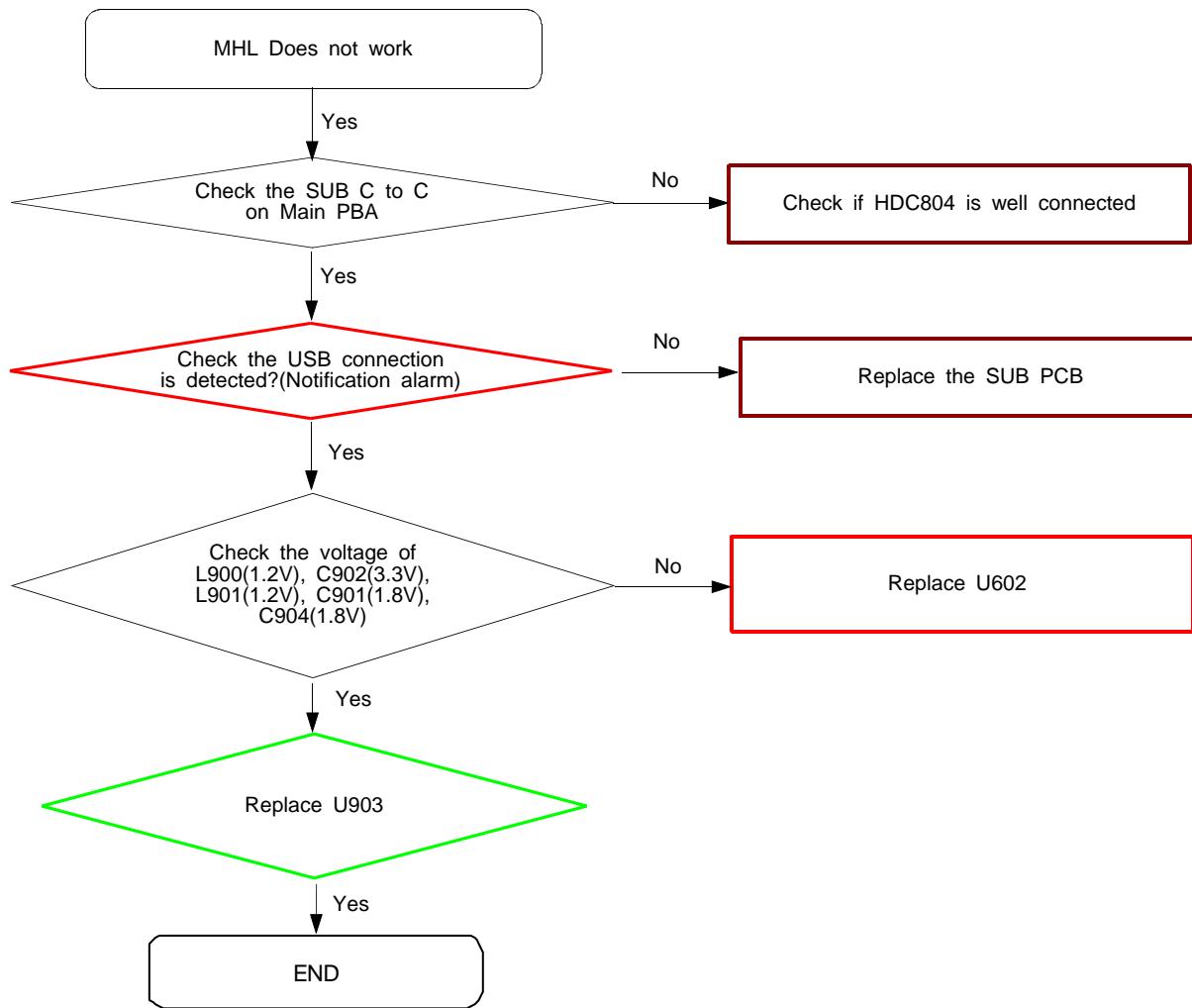


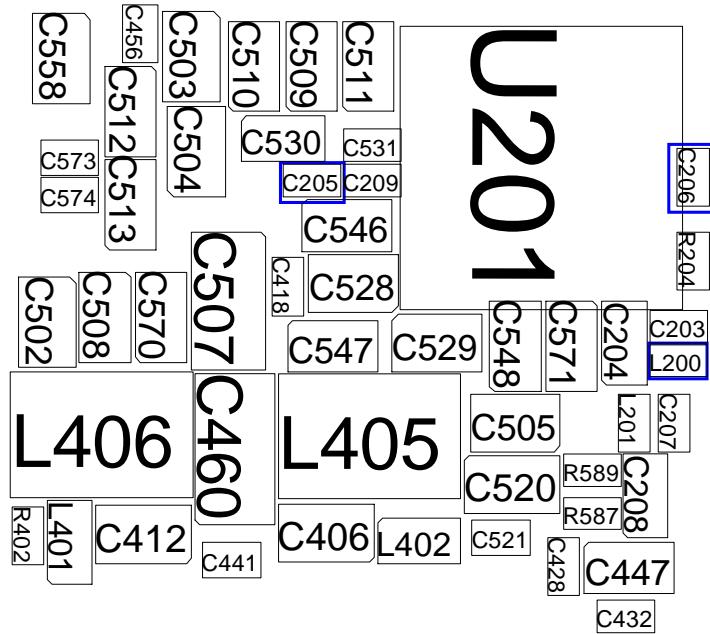
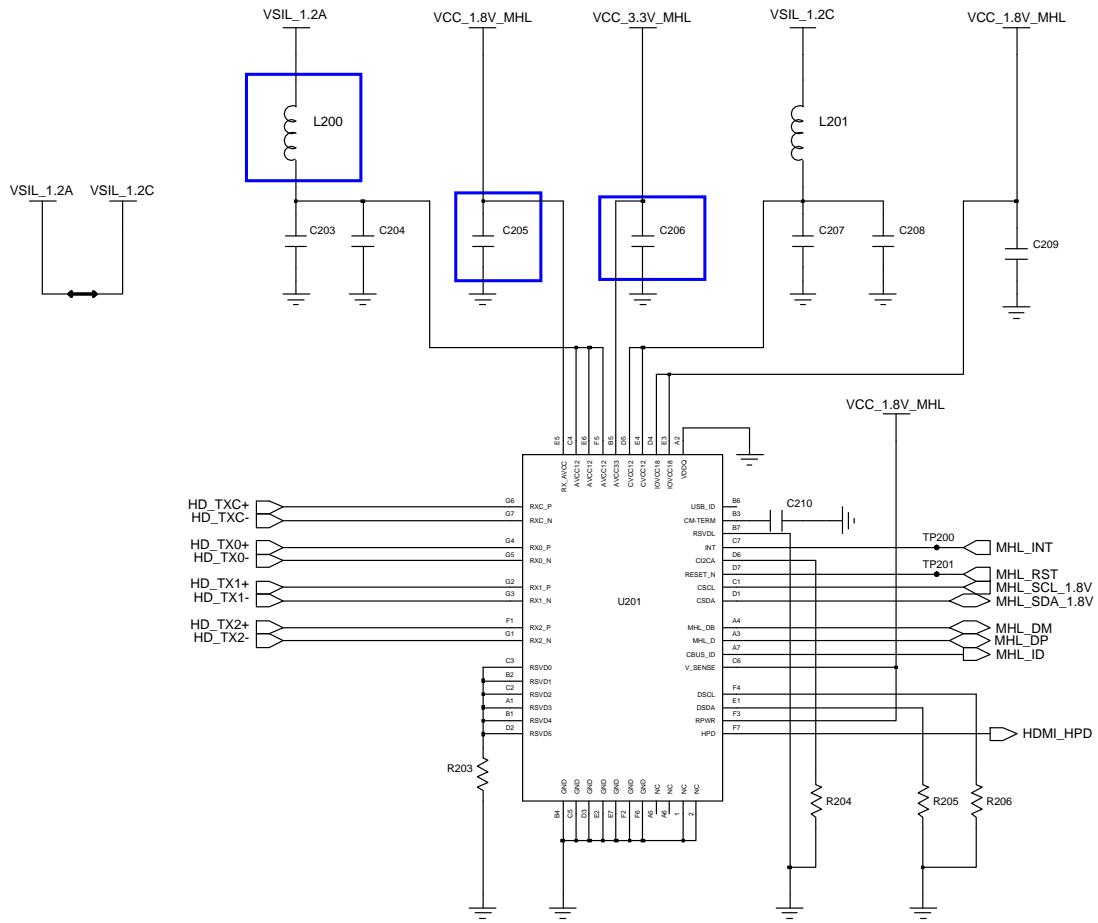
8-3-16. VT CAM



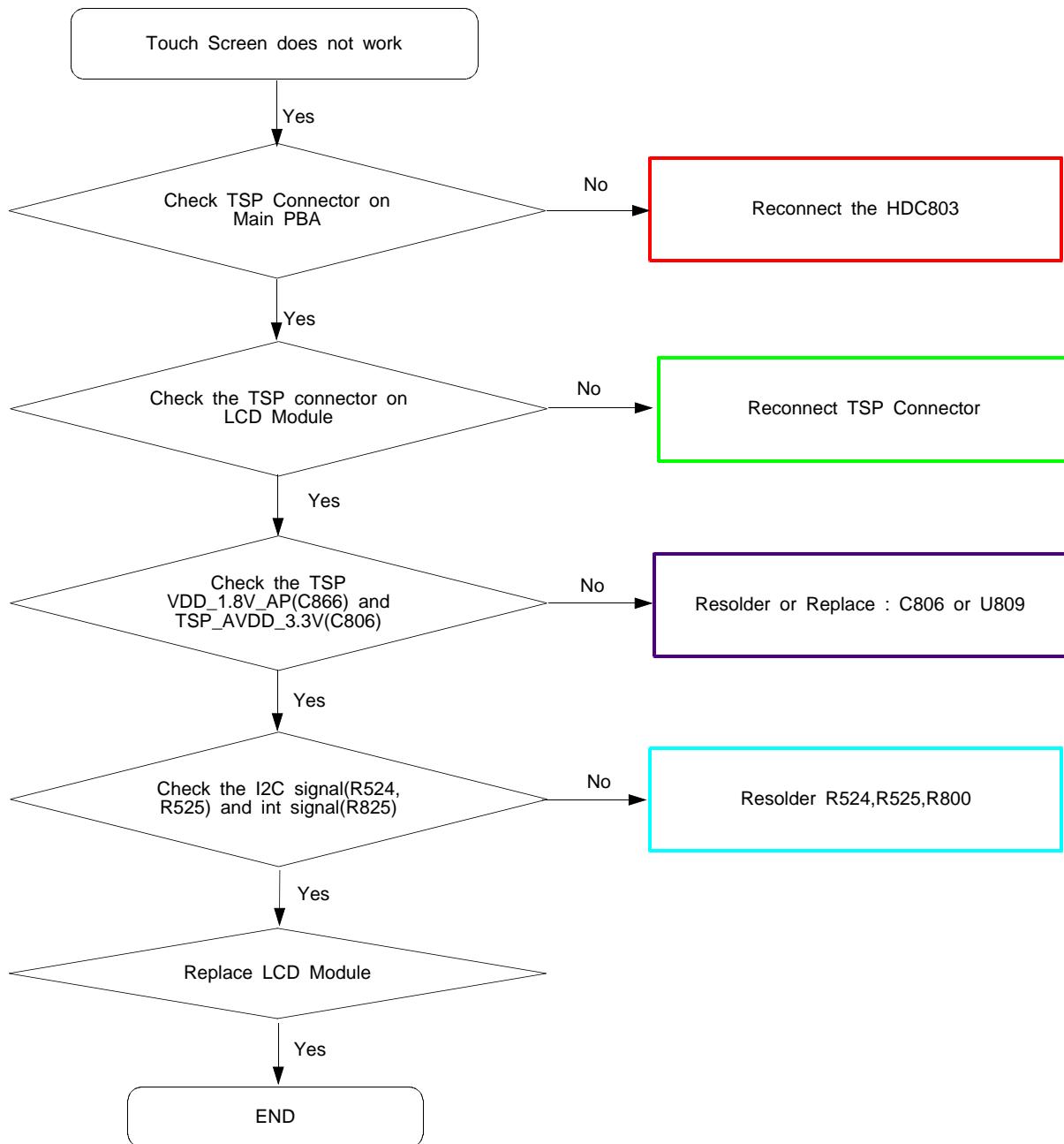


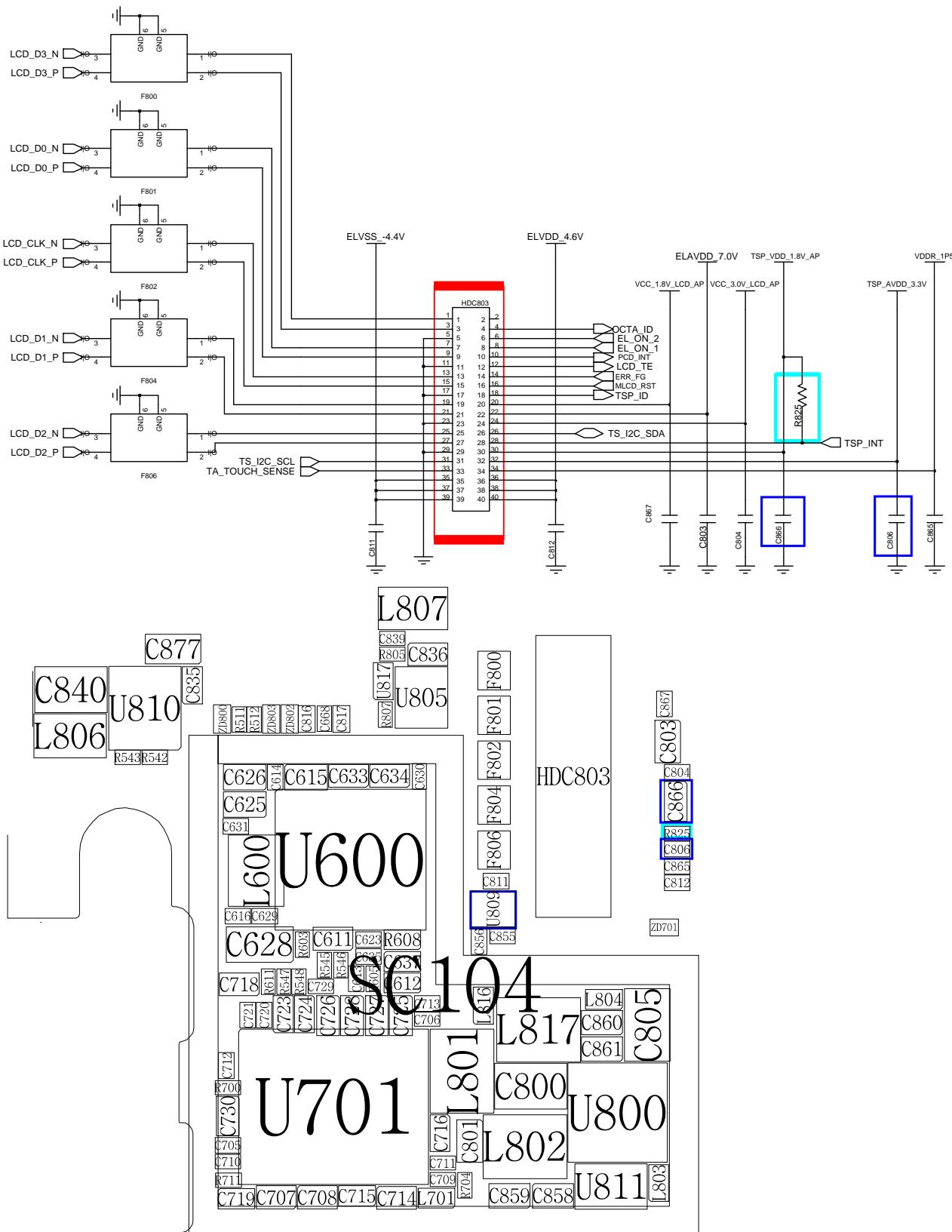
8-3-17. MHL

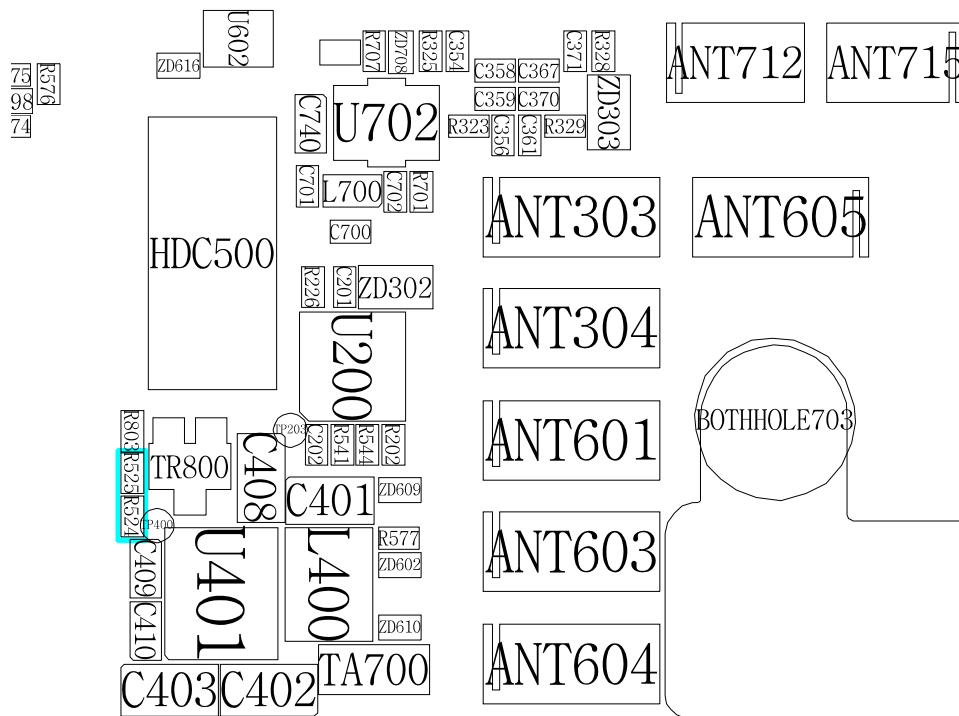




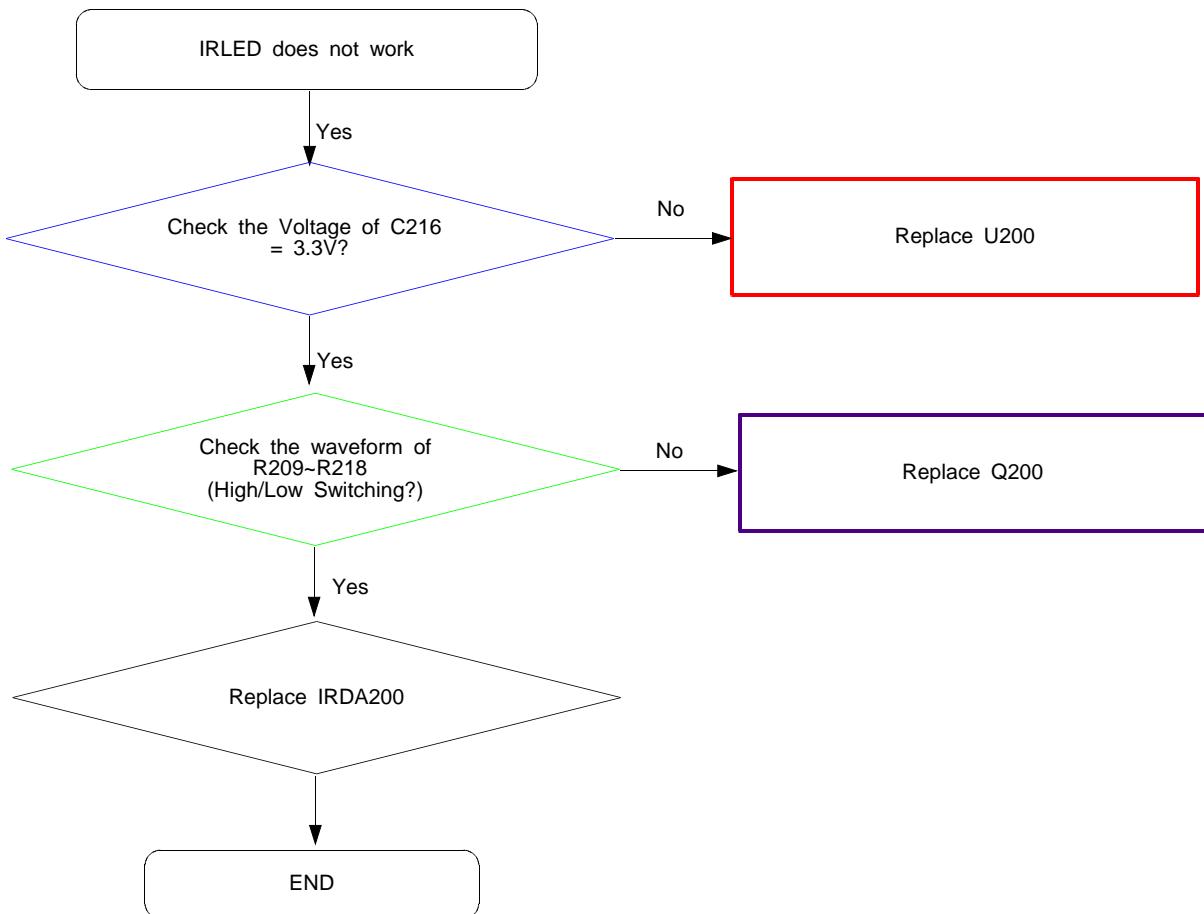
8-3-18. TSP

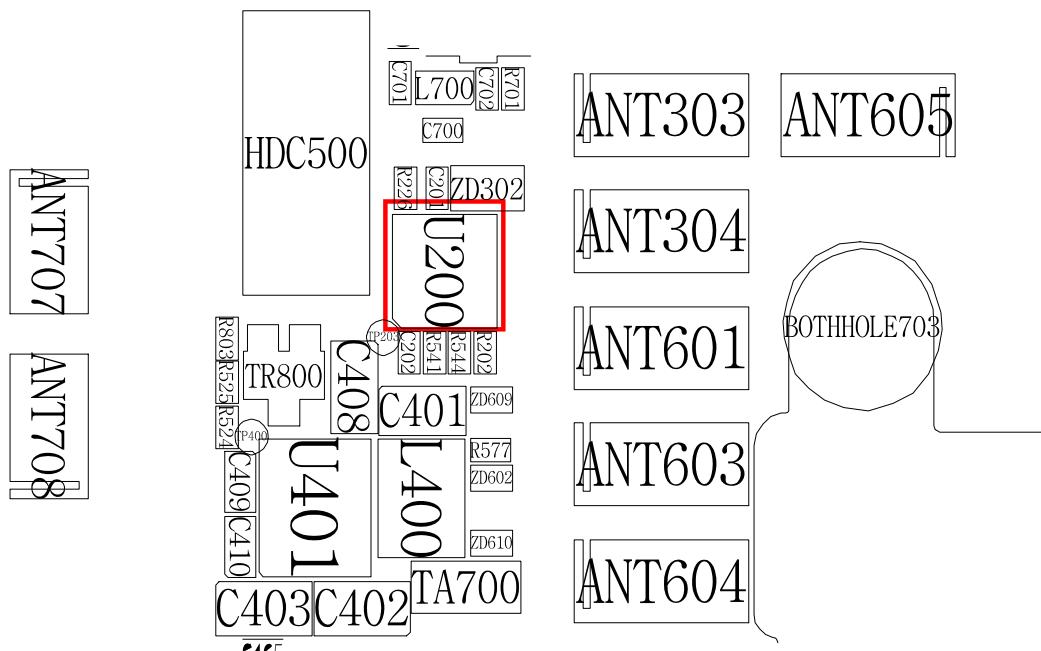
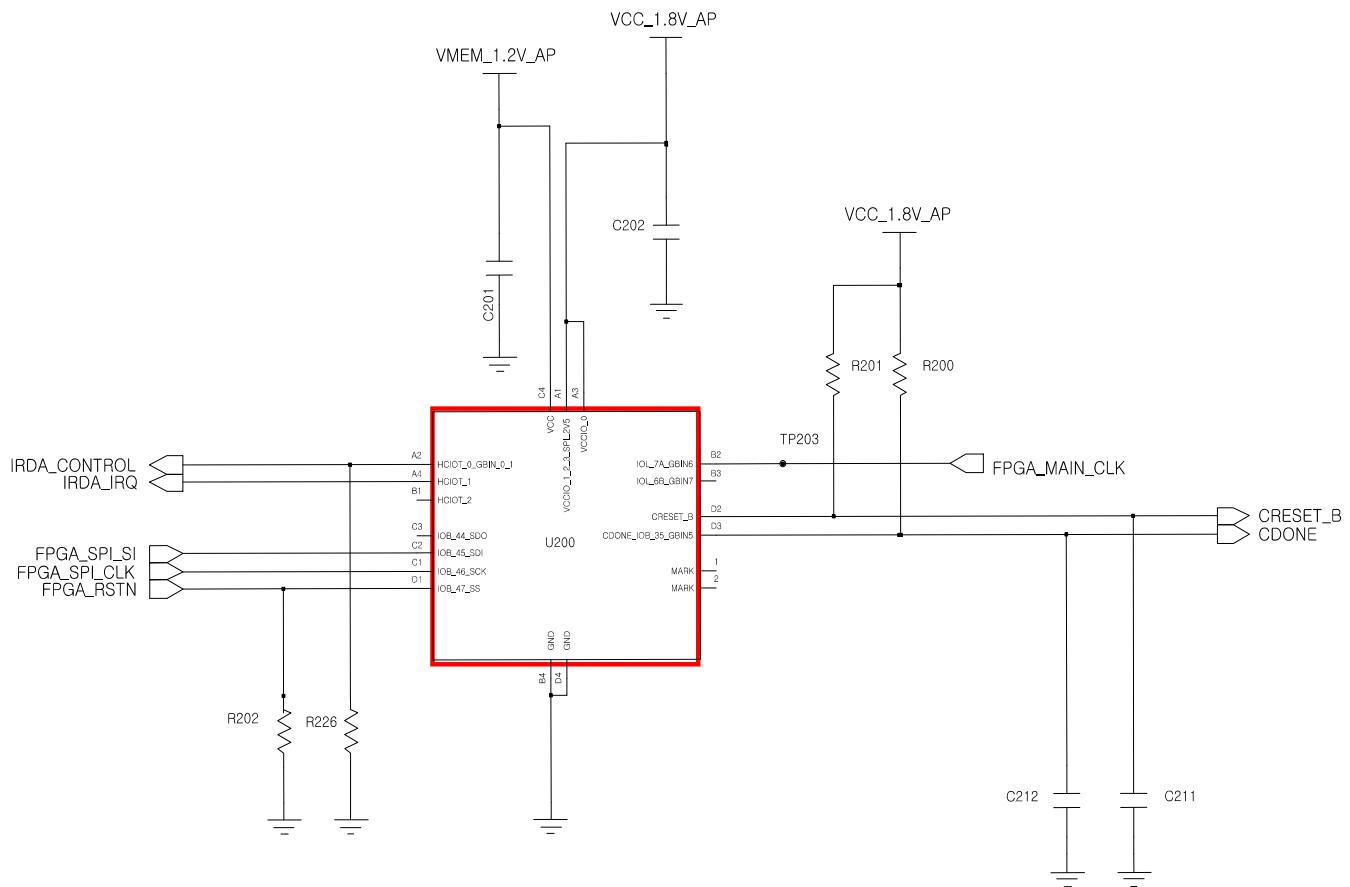


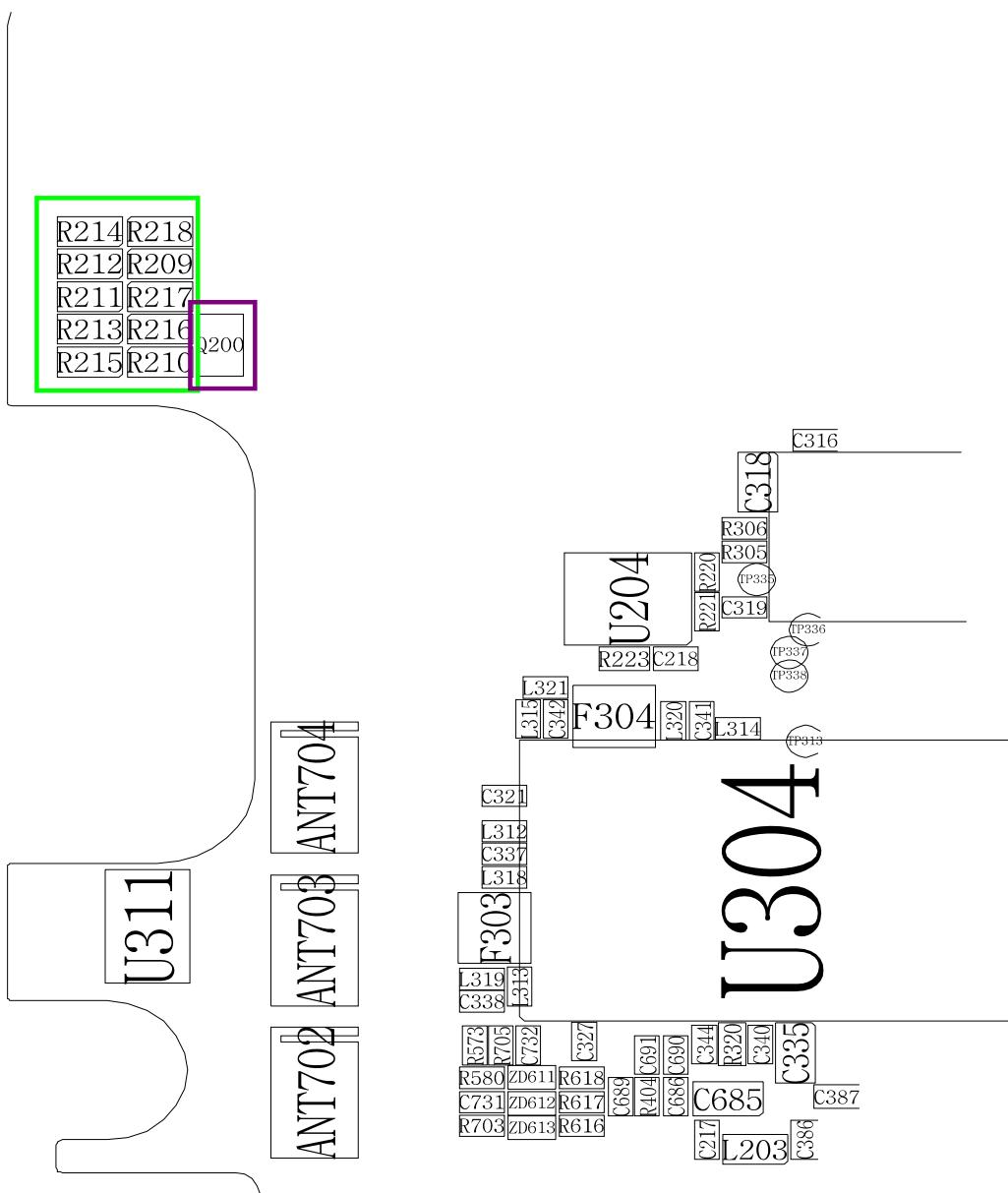




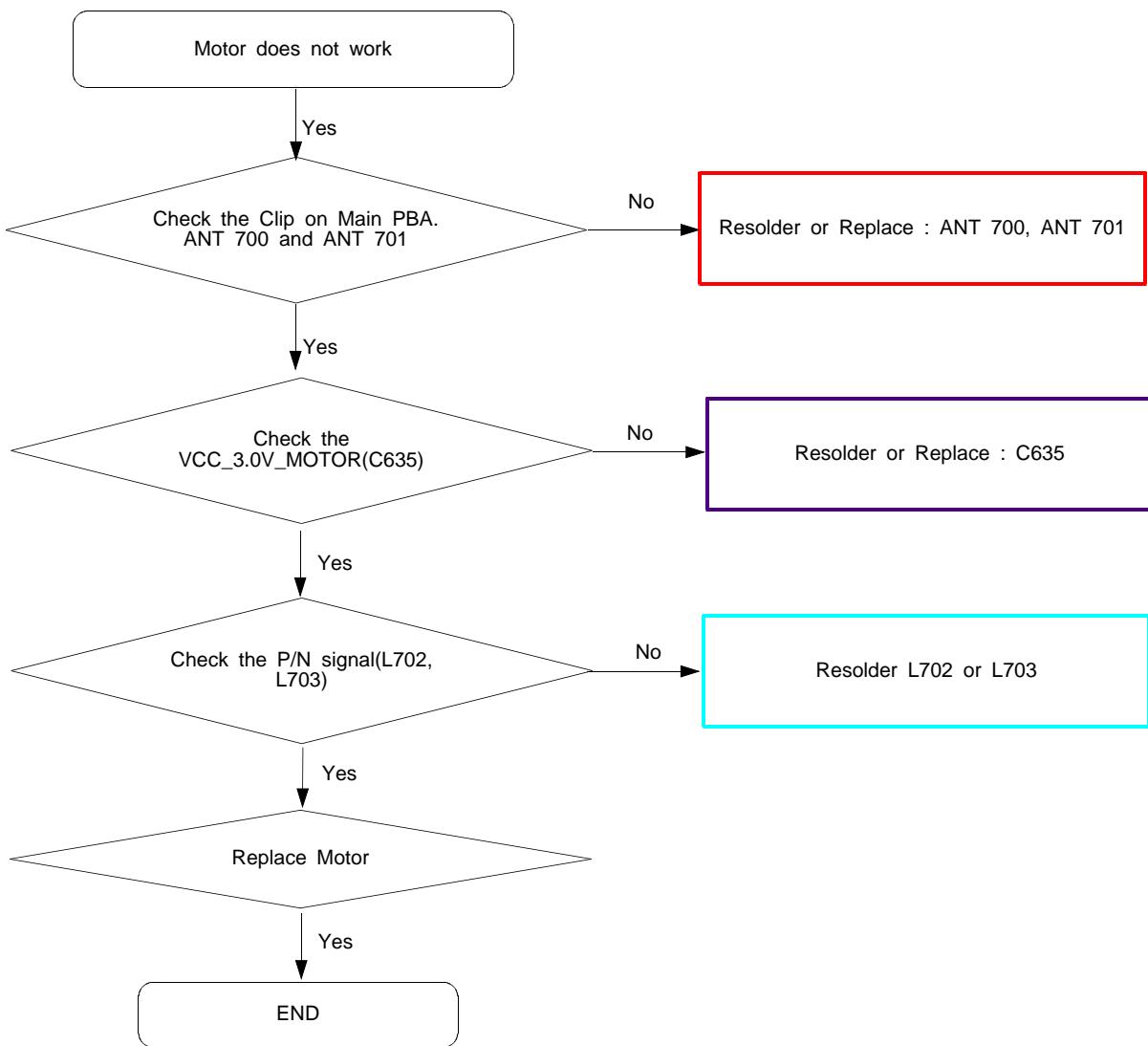
8-3-19. IRLED

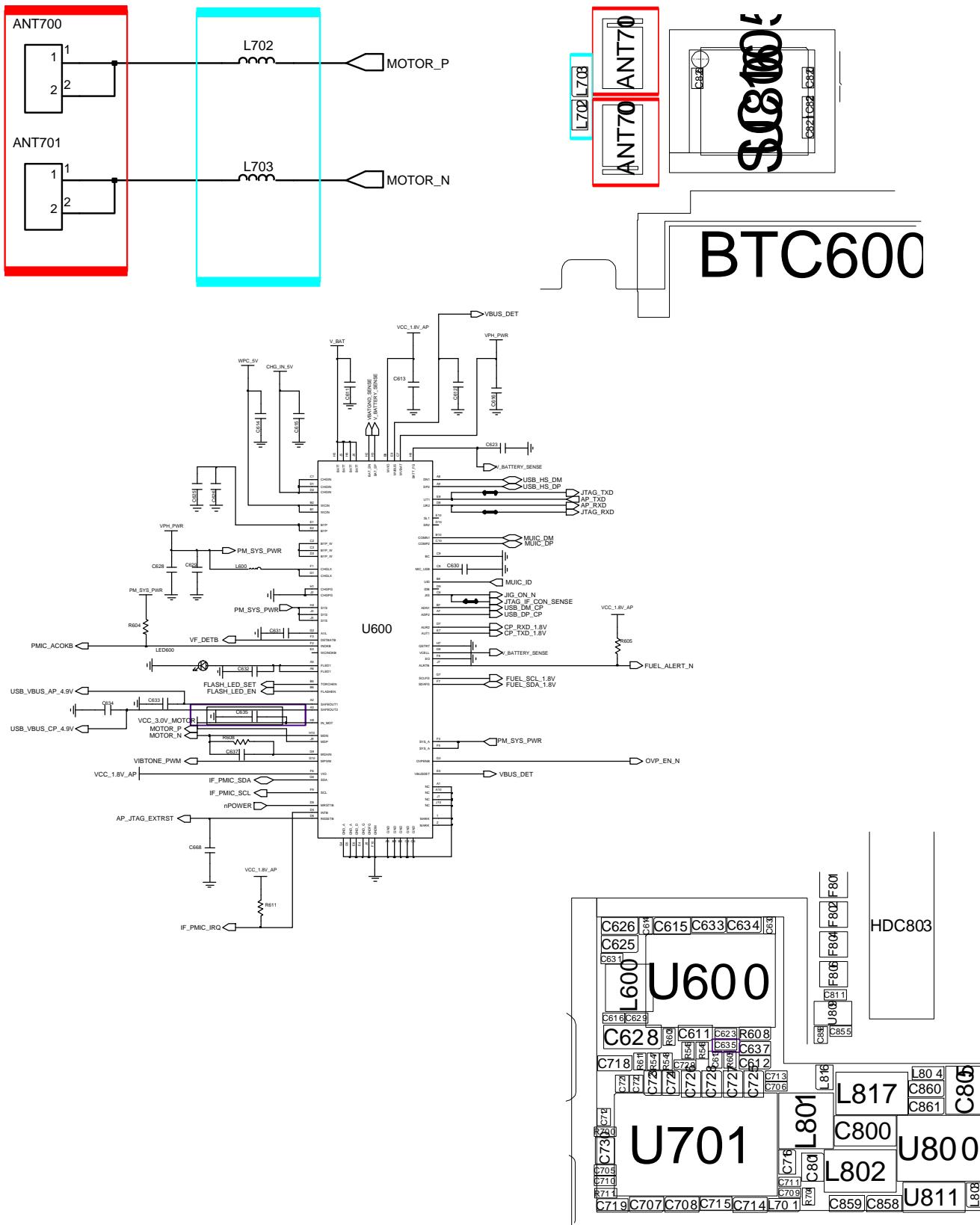




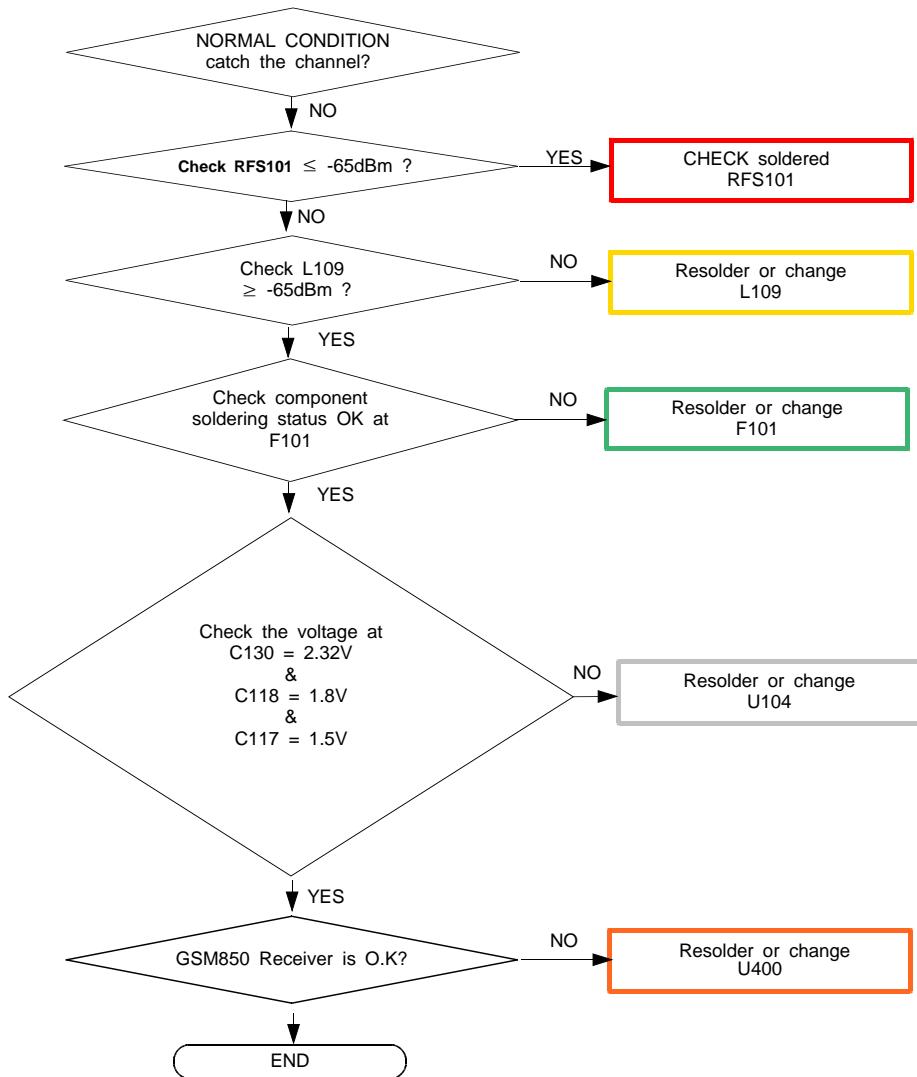


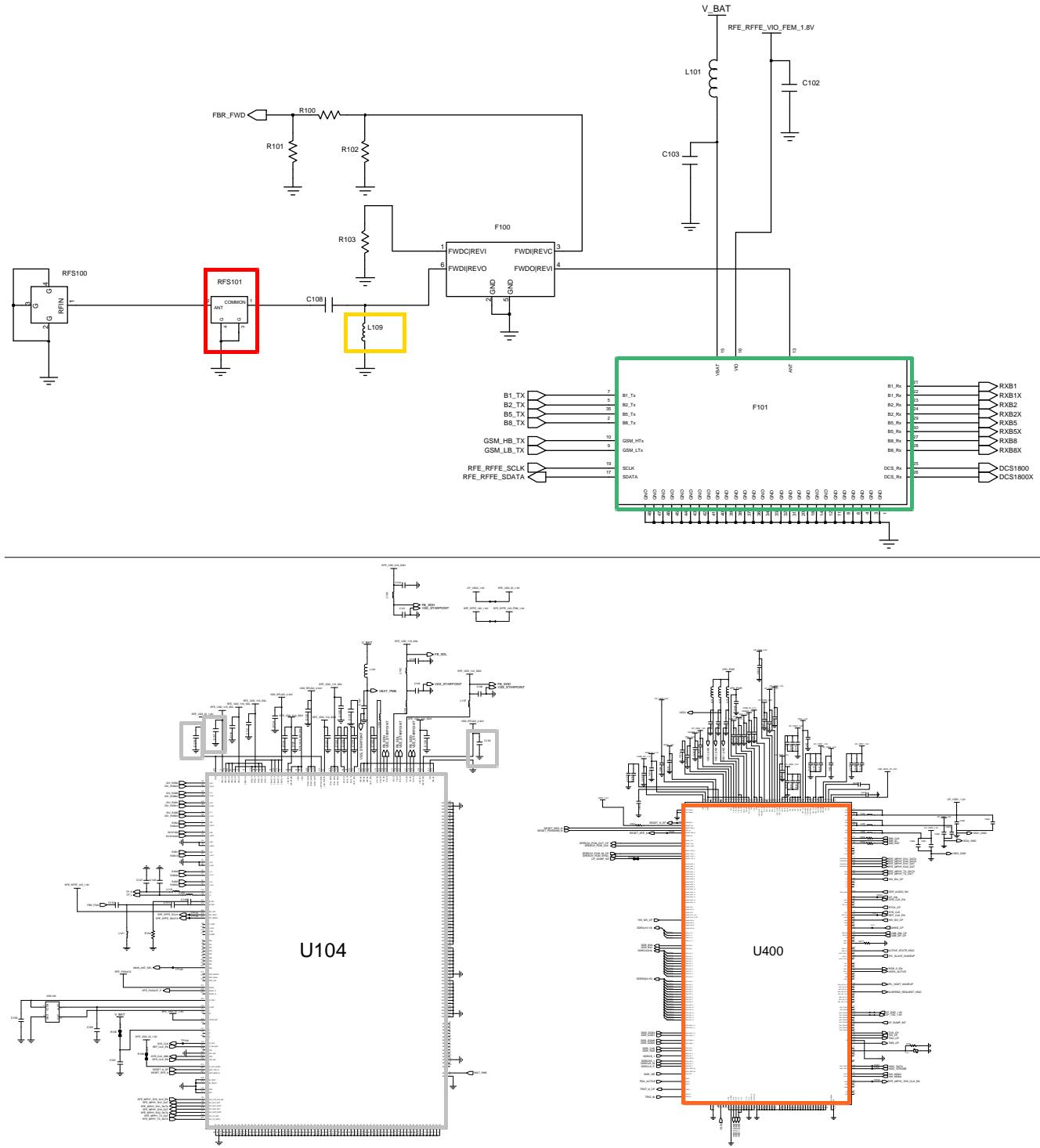
8-3-20. Motor

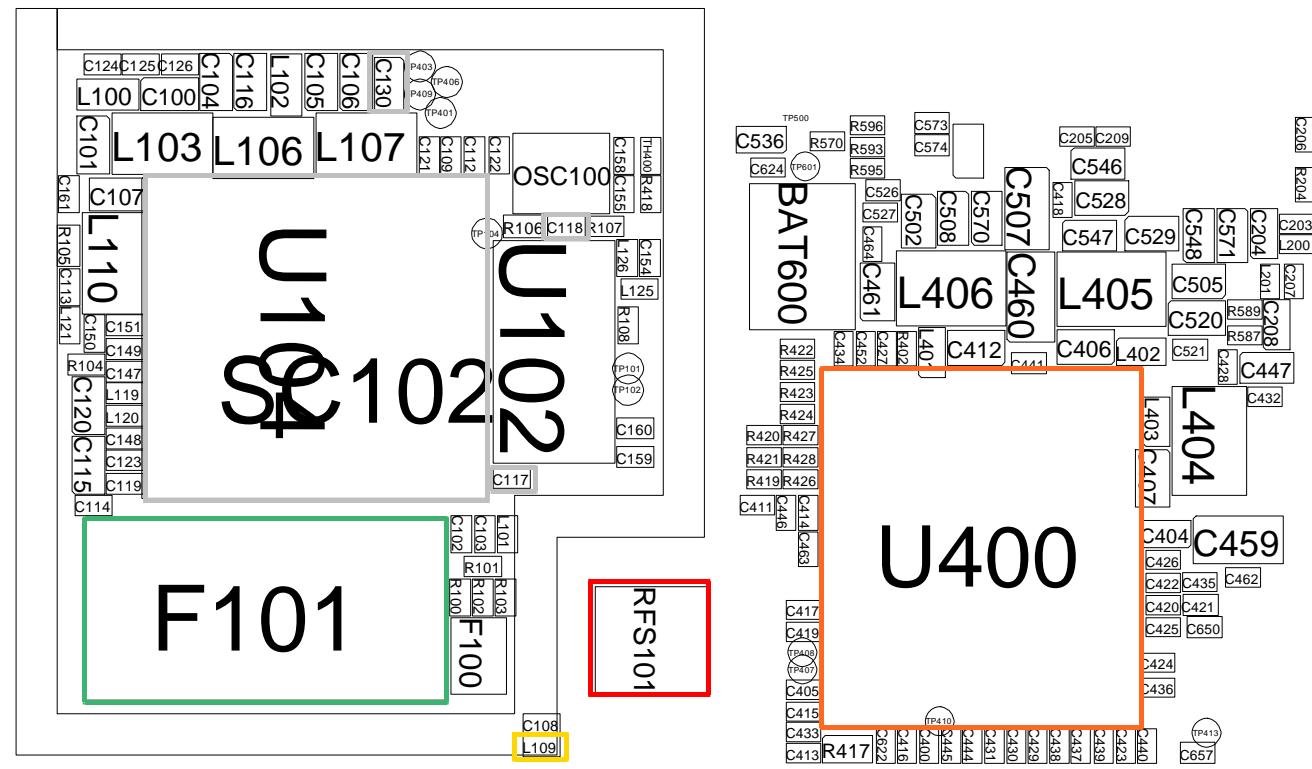




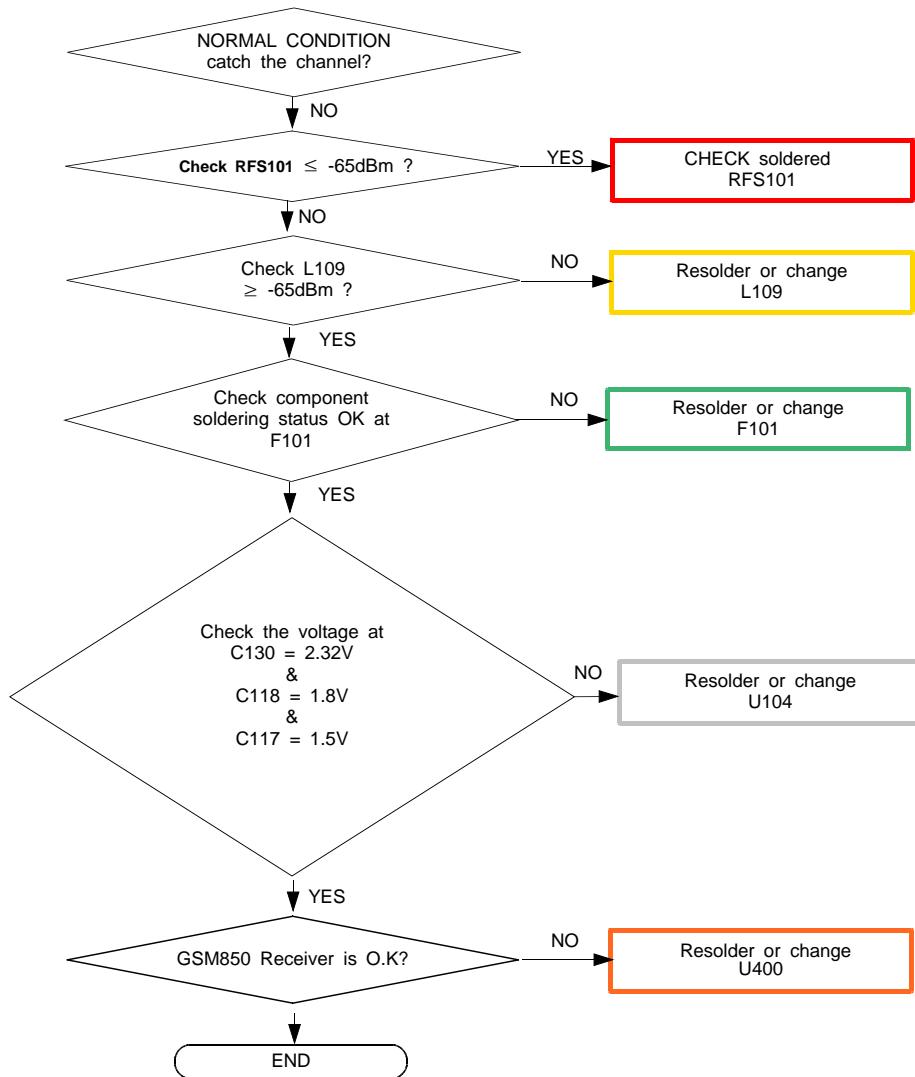
8-3-21. GSM850 RX

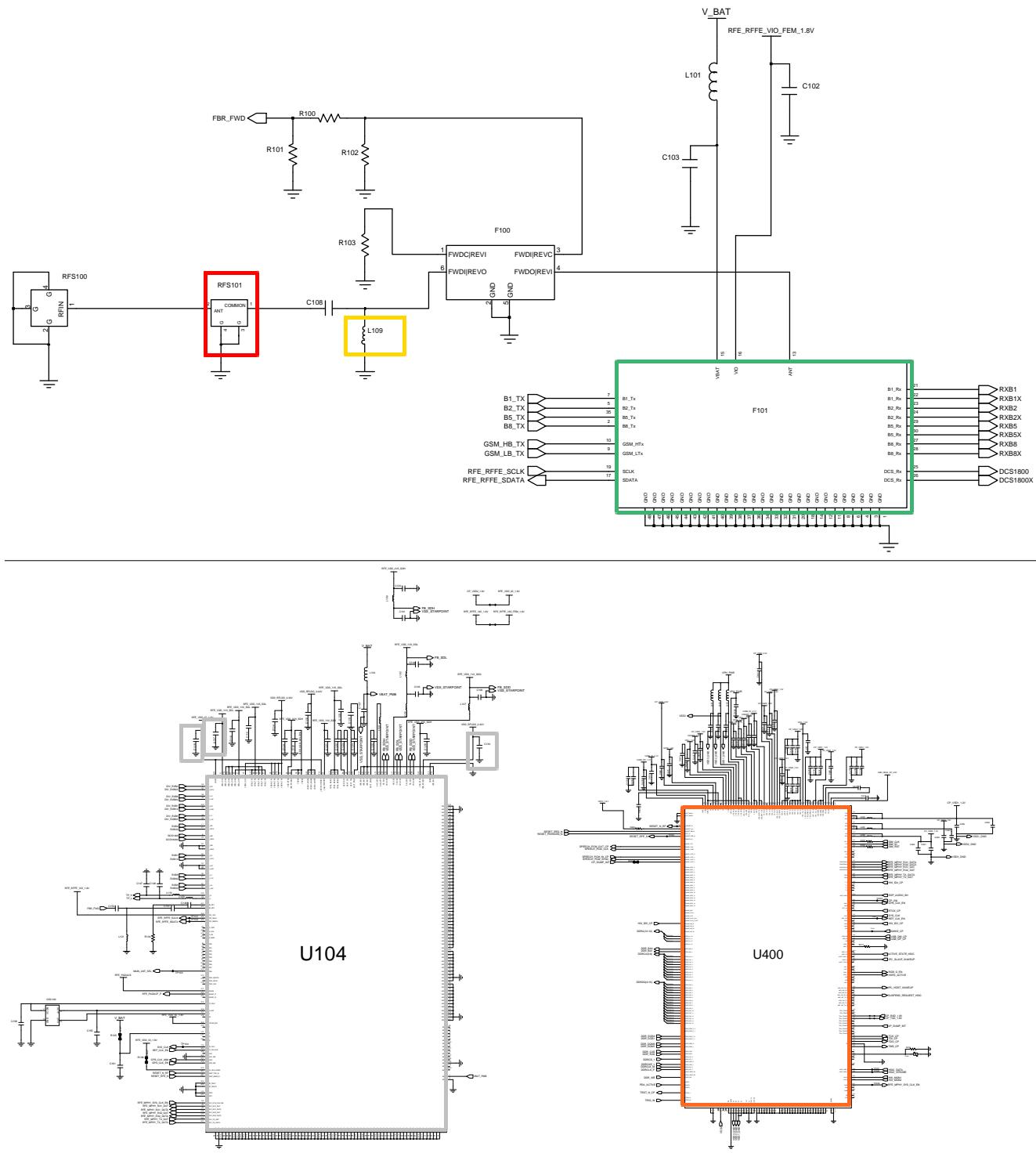


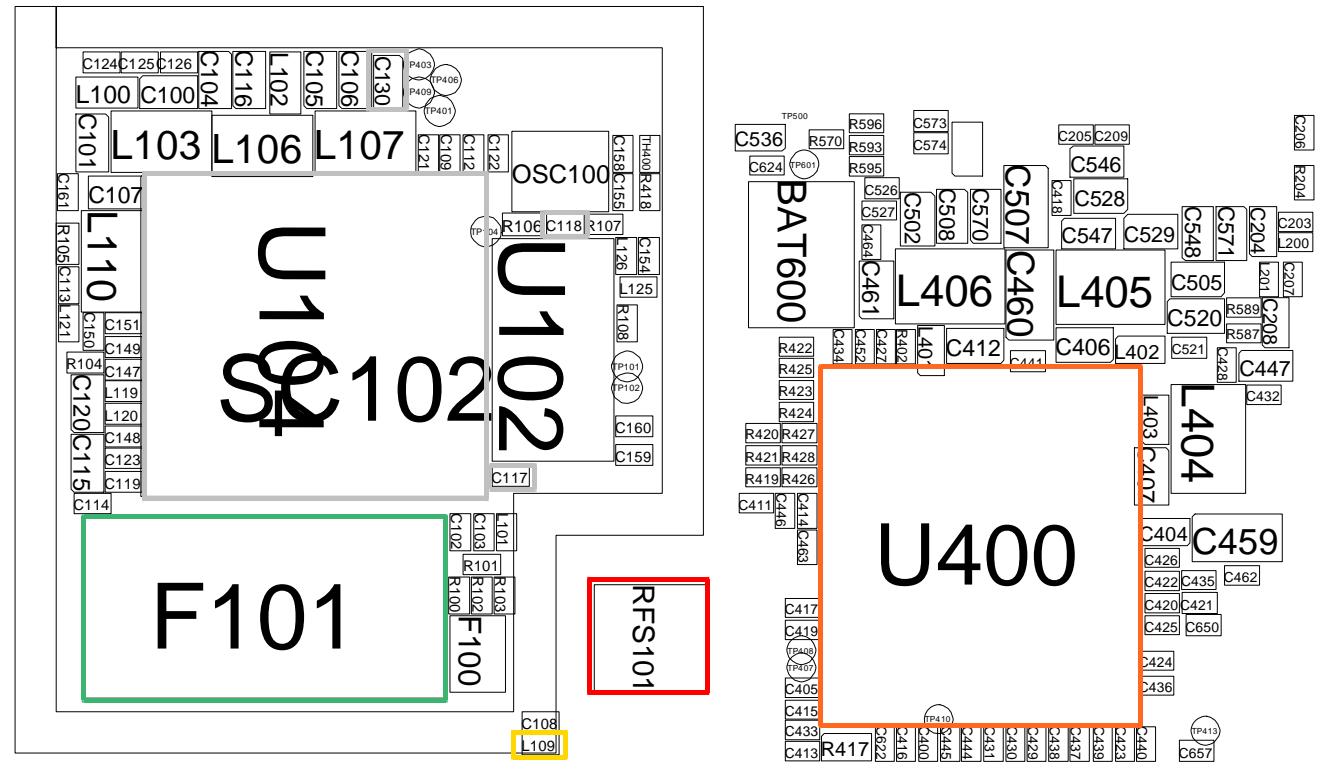




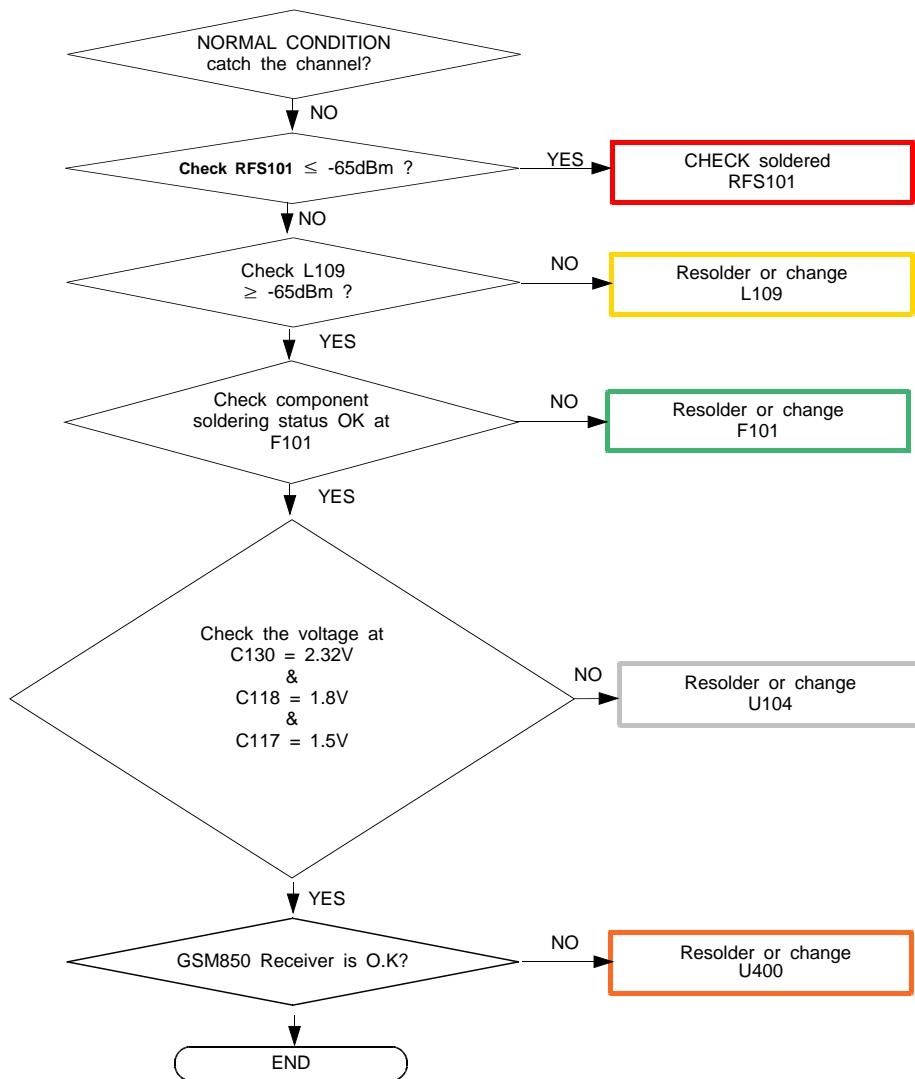
8-3-22. GSM900 RX

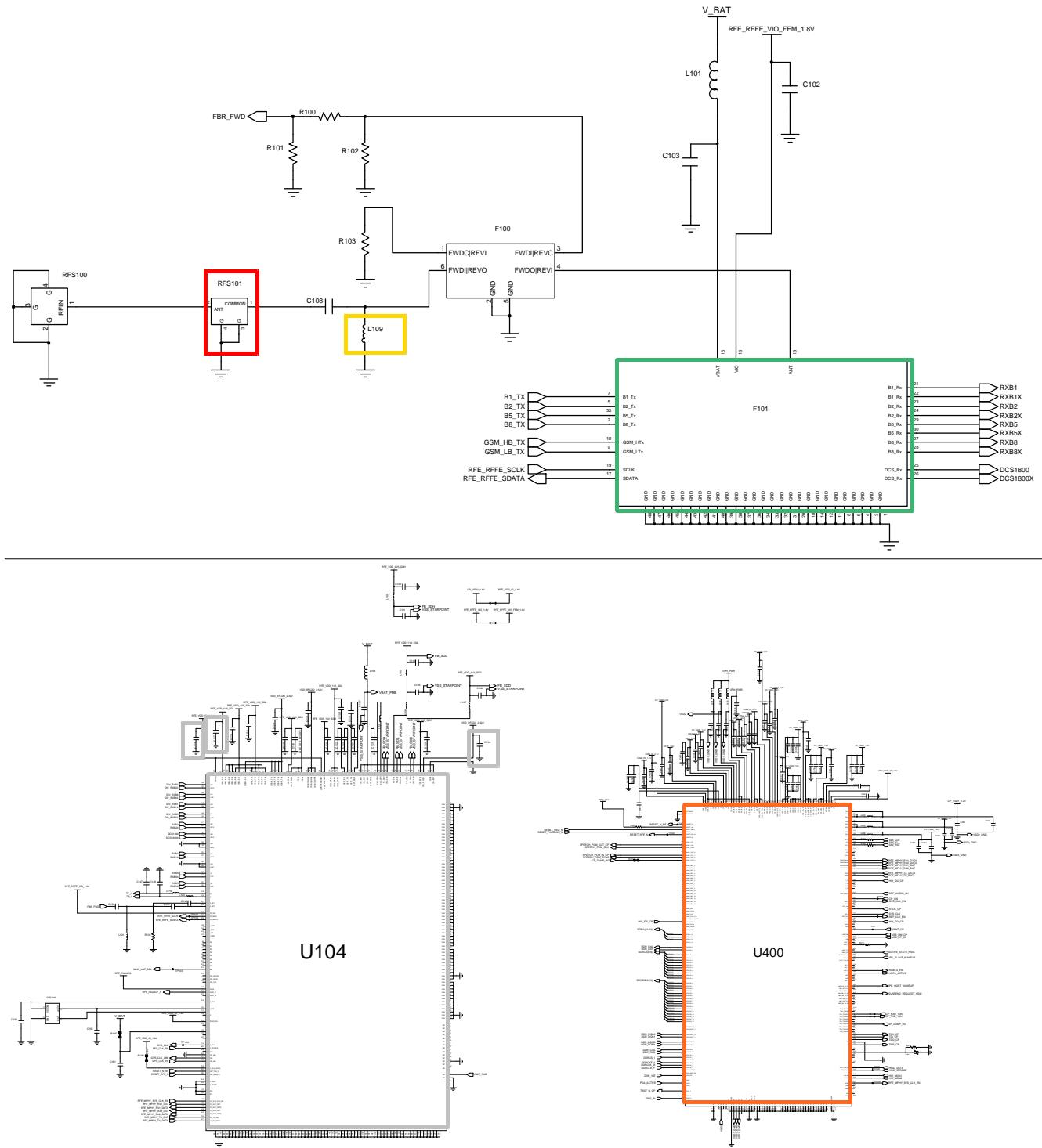


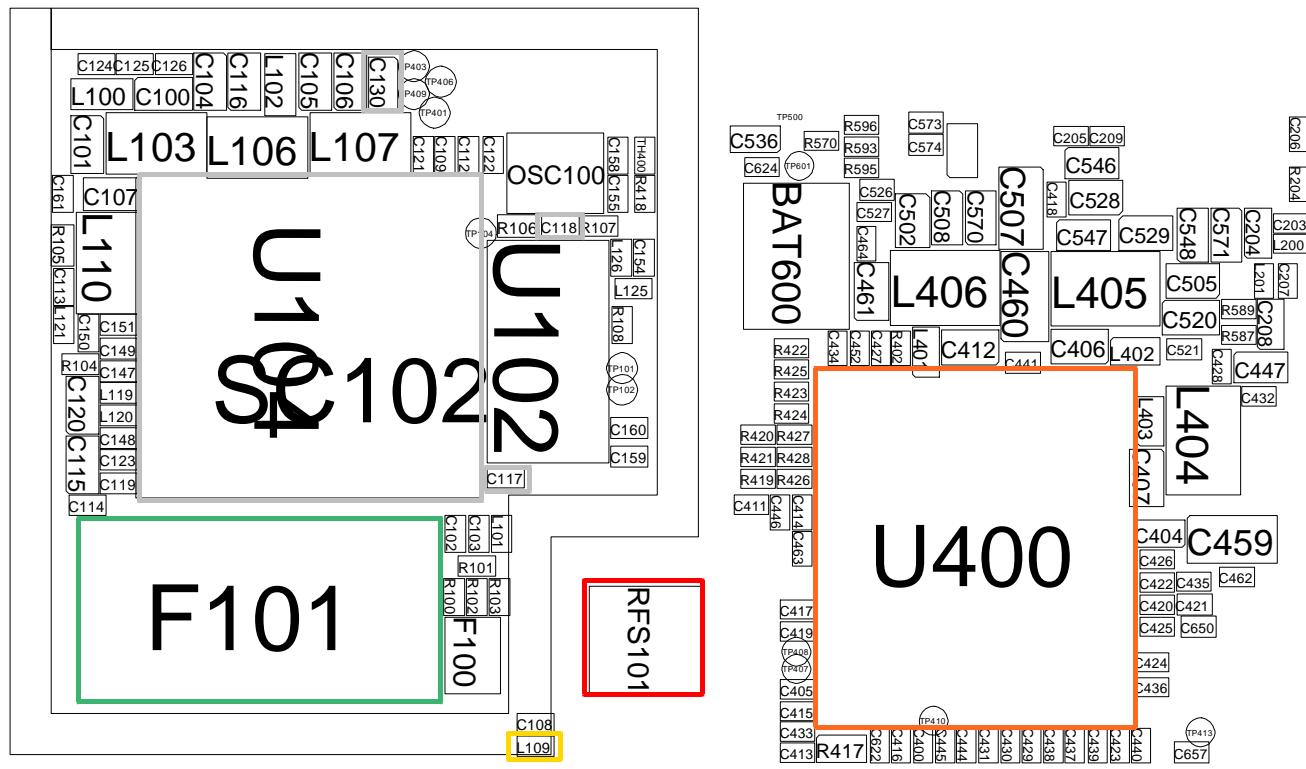




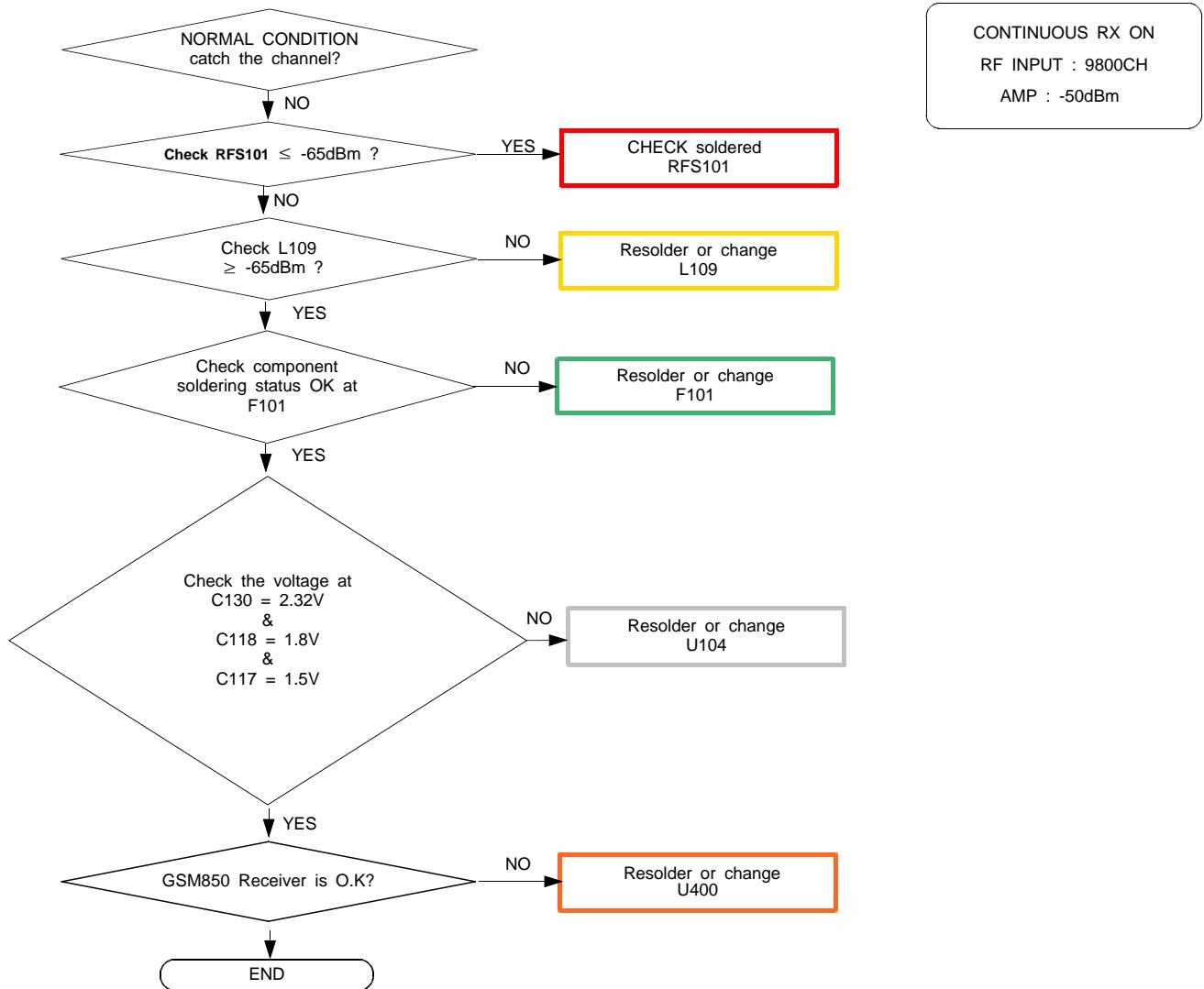
8-3-23. GSM1800/1900 RX

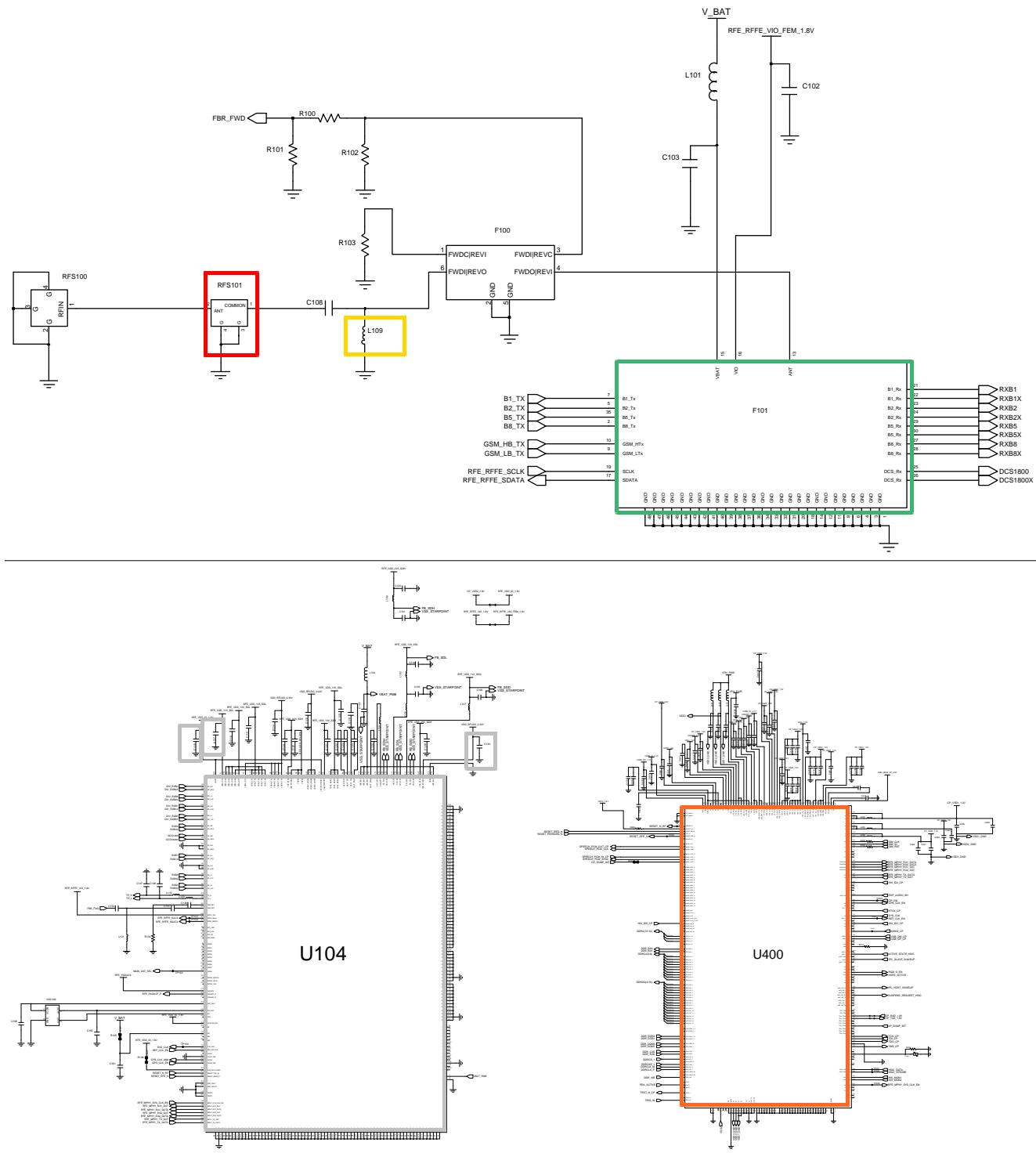


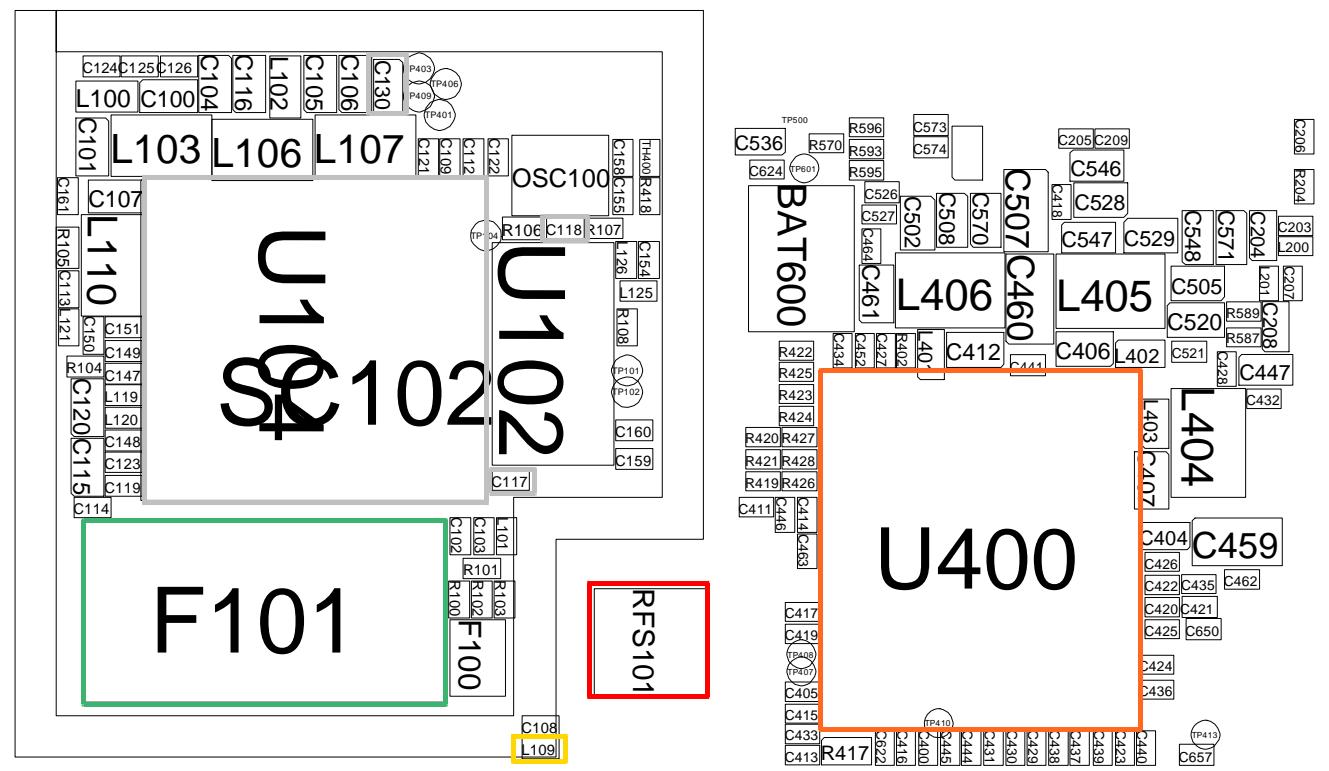




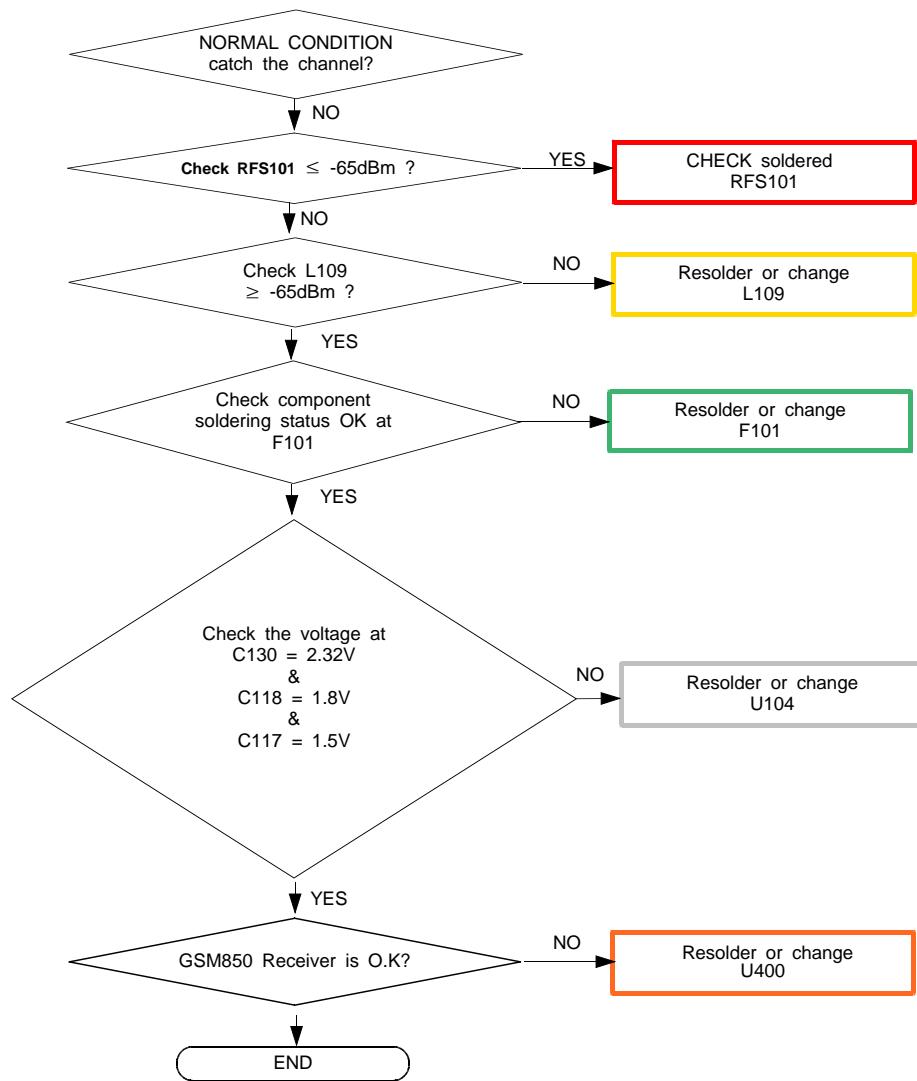
8-3-24. WCDMA 2100 RX



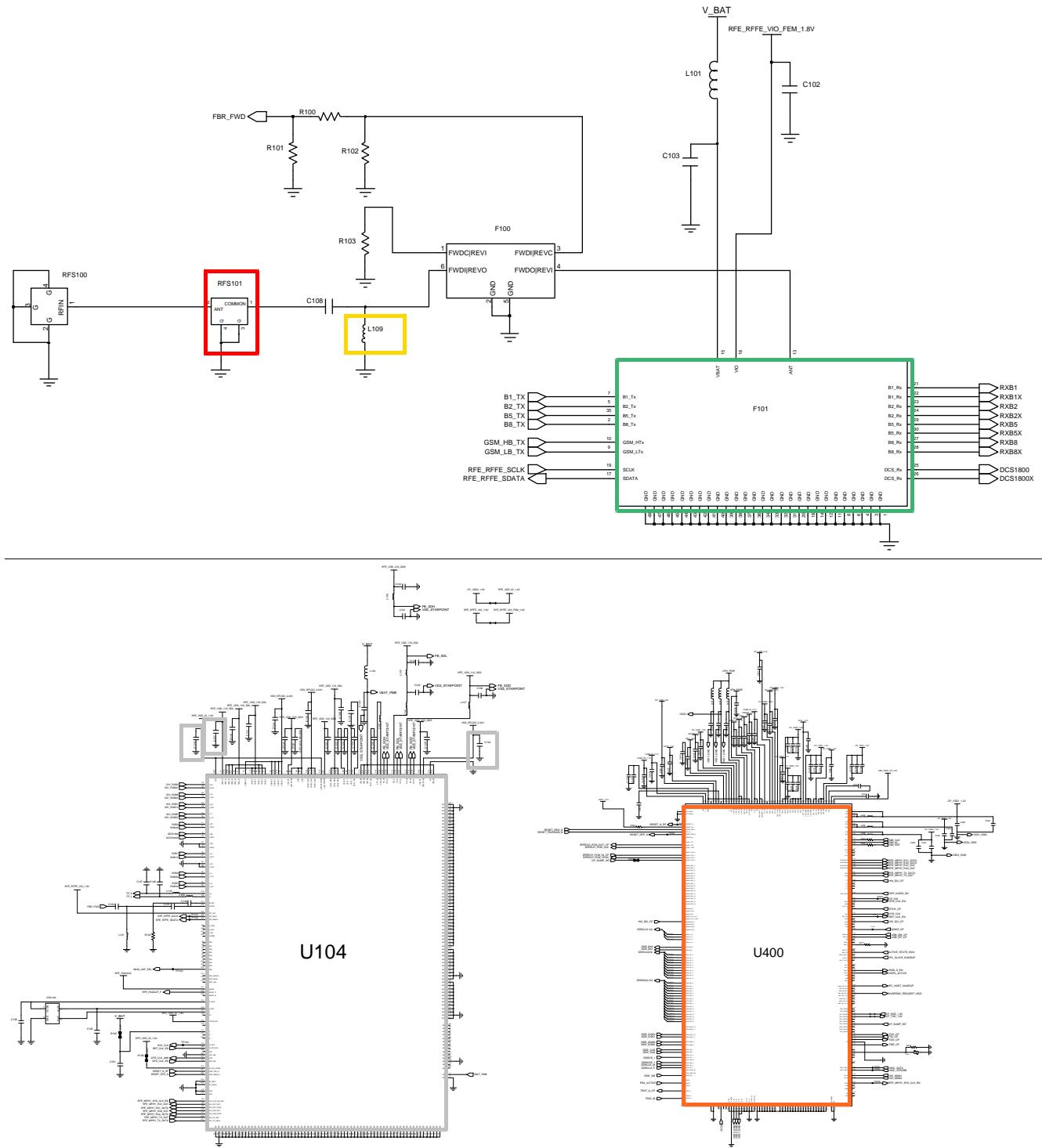


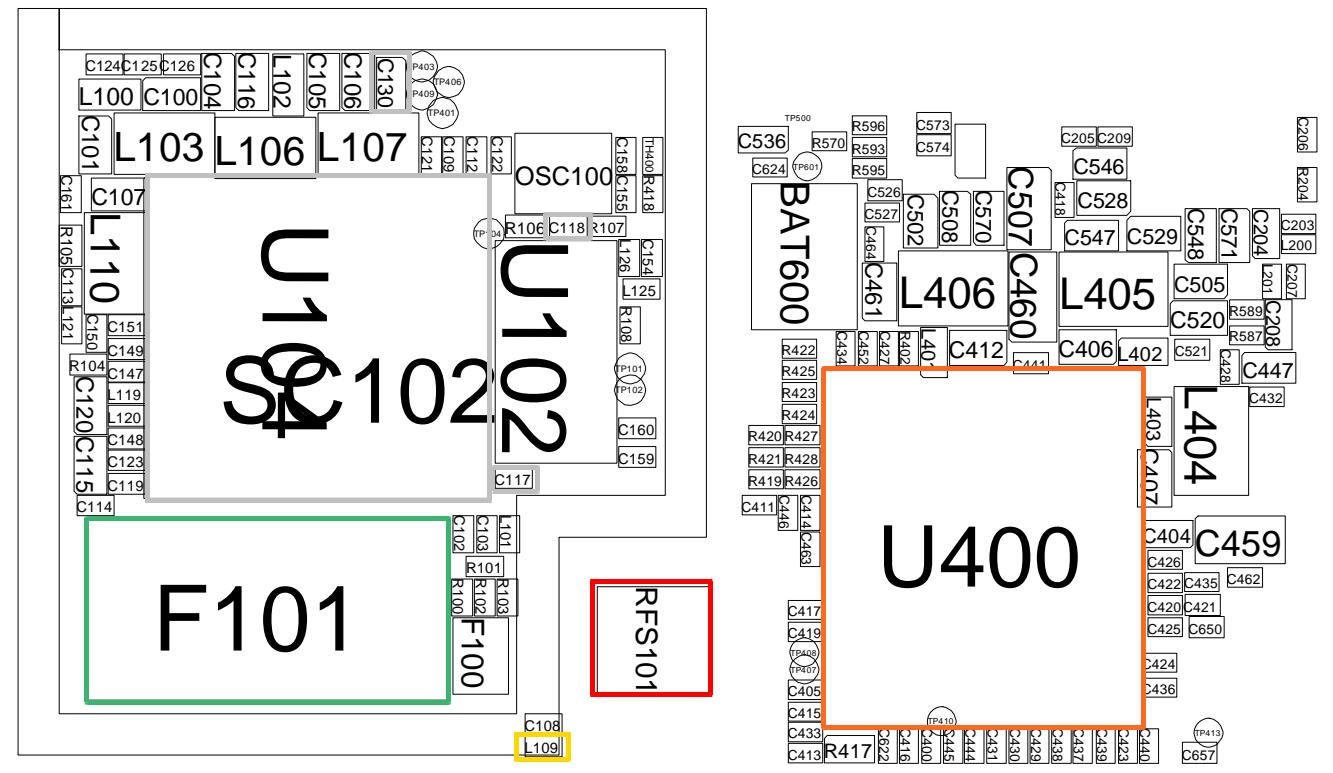


8-3-25. WCDMA 1900 RX

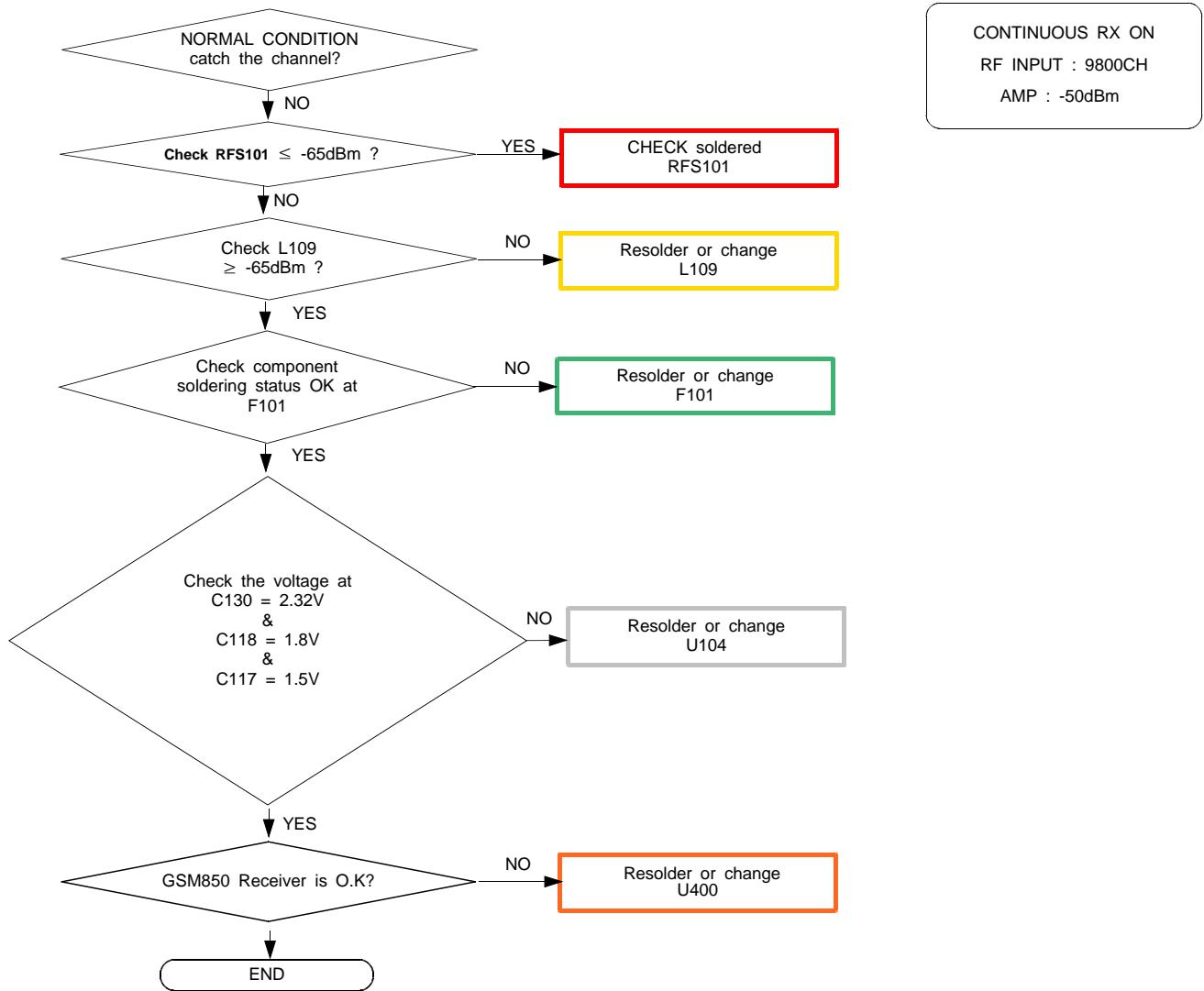


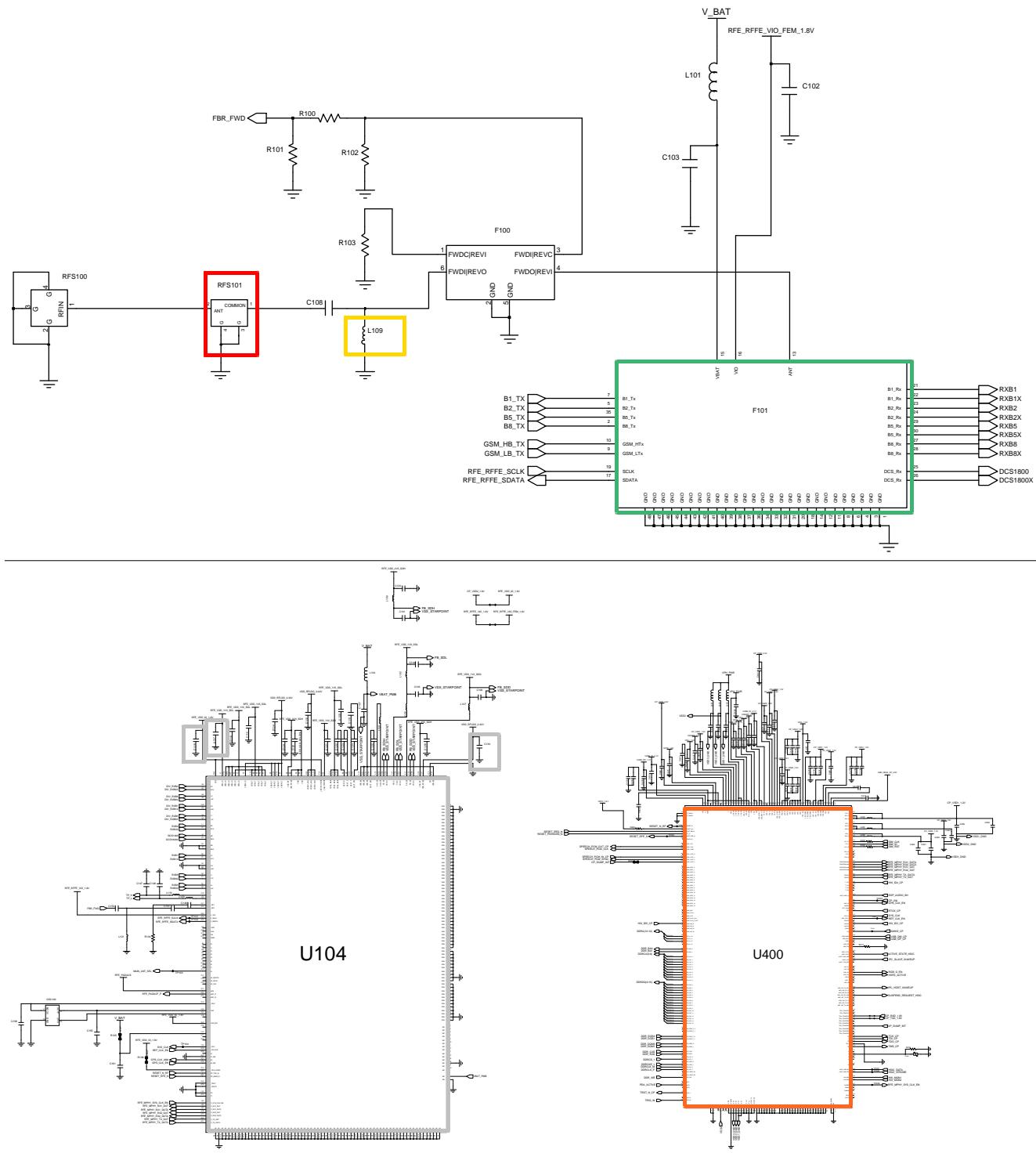
CONTINUOUS RX ON
RF INPUT : 9800CH
AMP : -50dBm

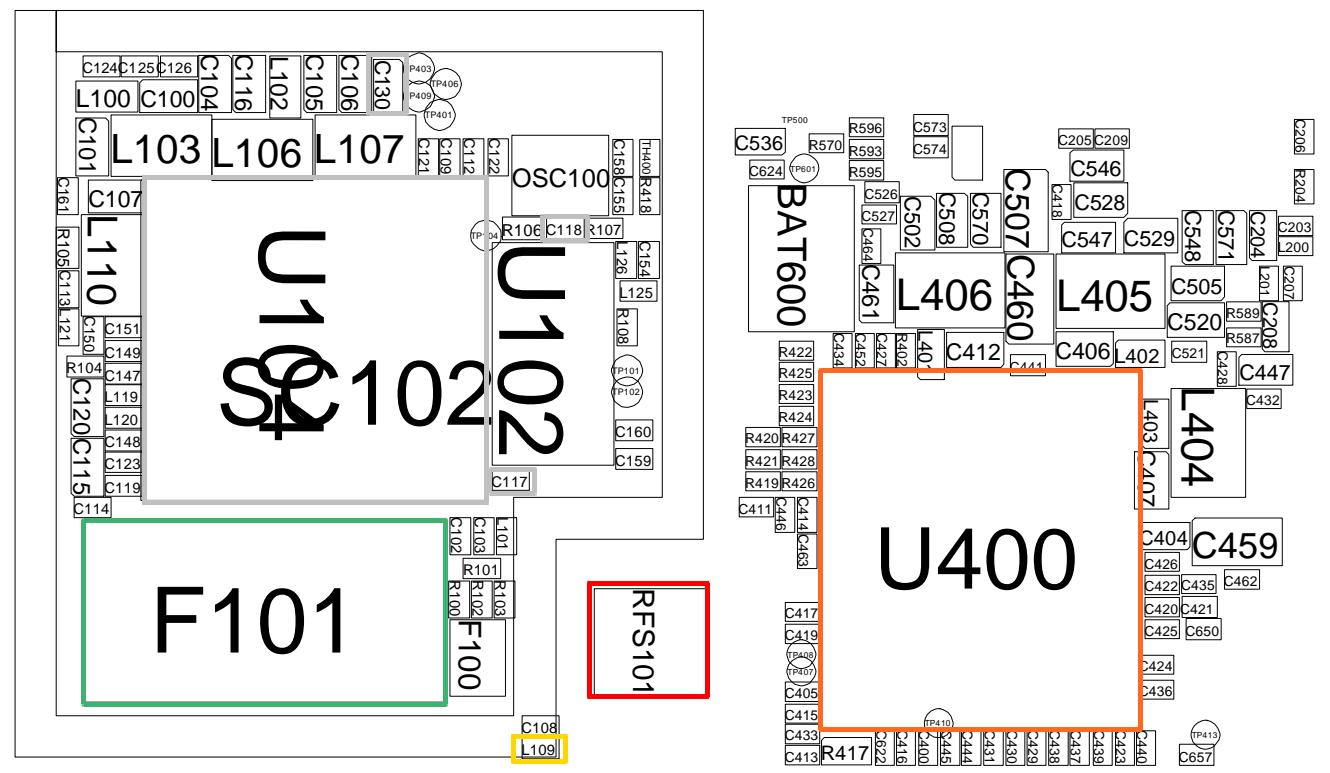




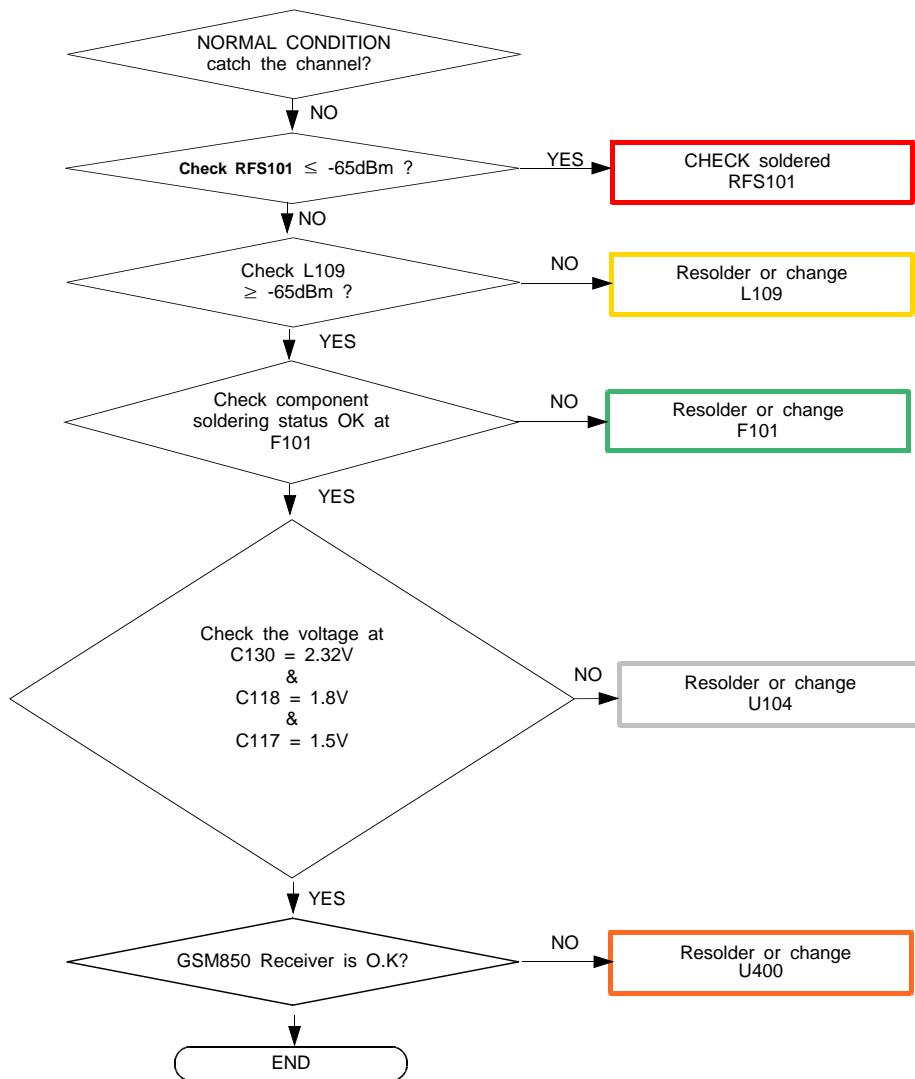
8-3-26. WCDMA850 RX



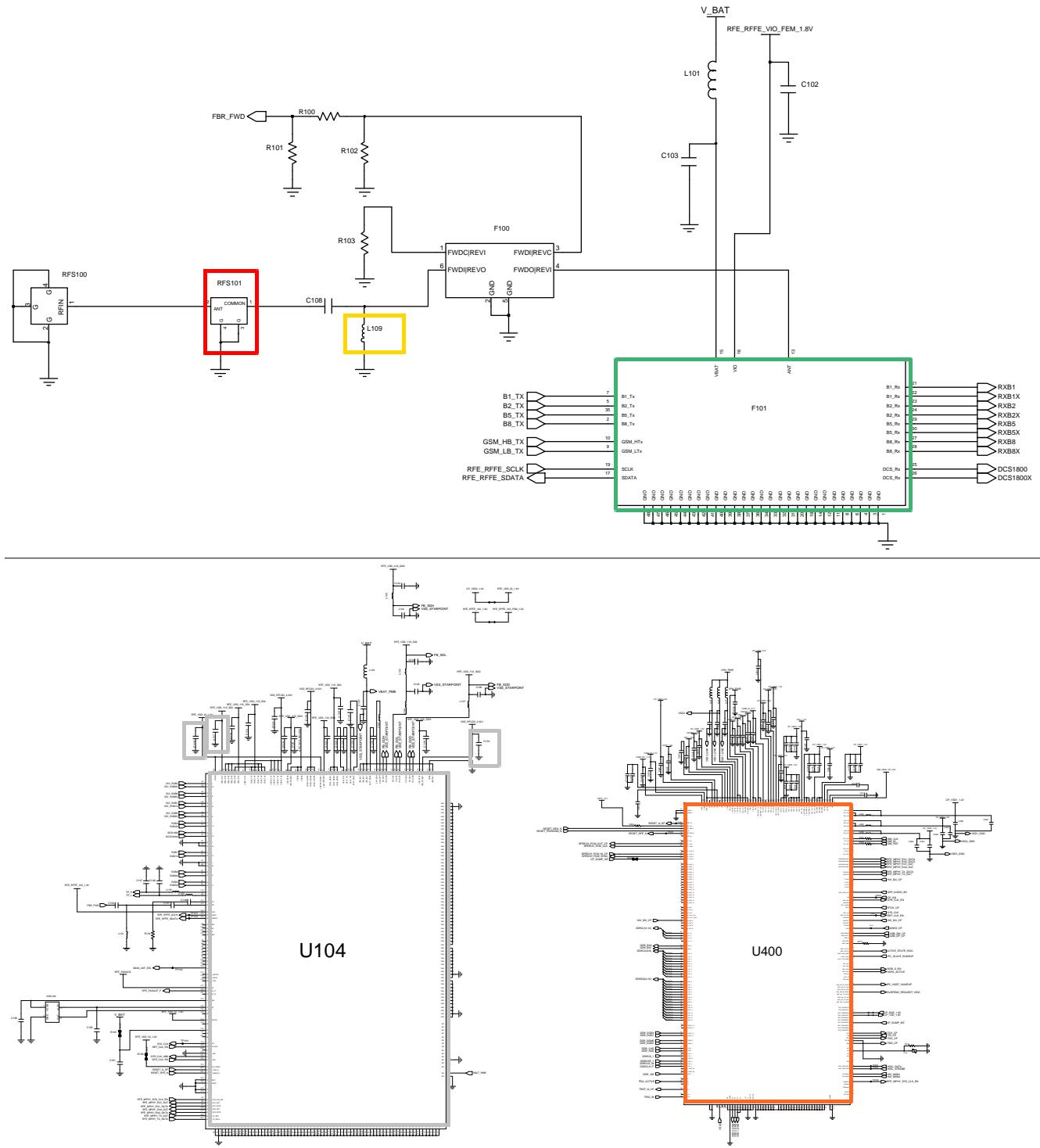


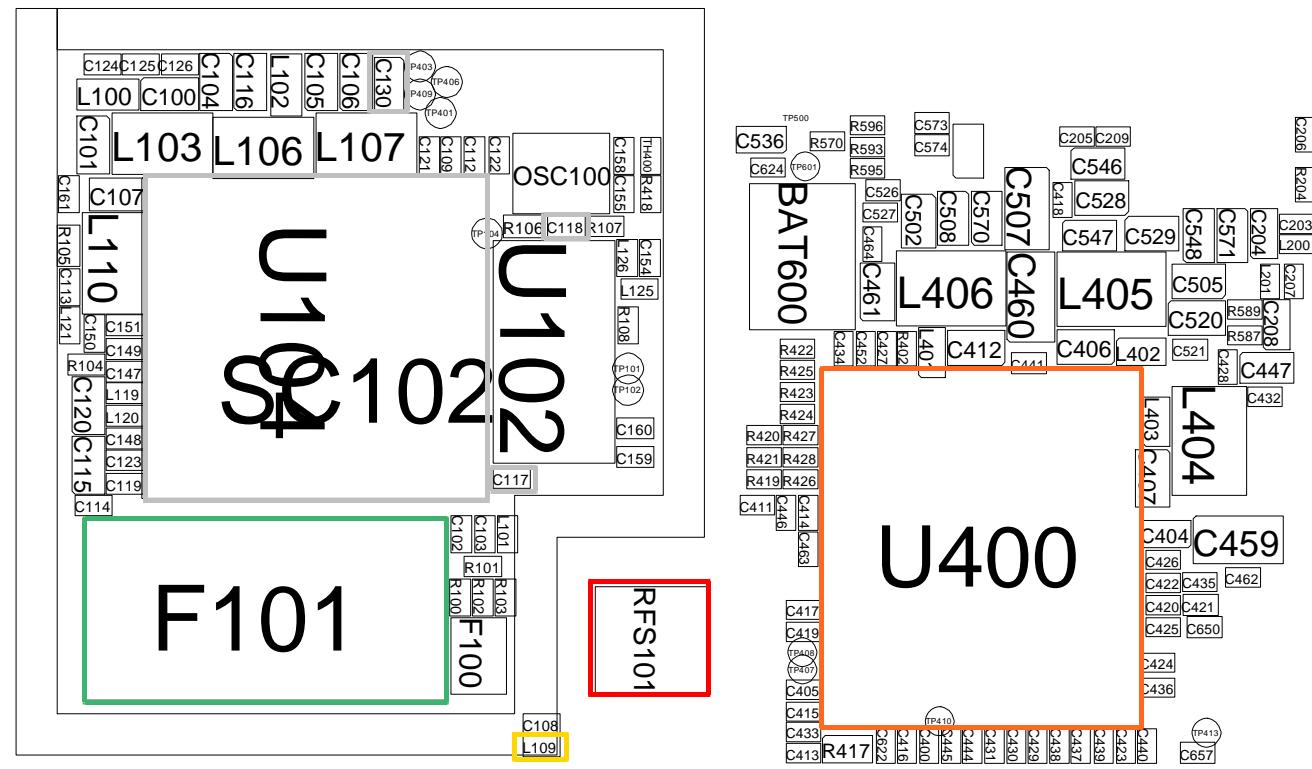


8-3-27. WCDMA900 RX

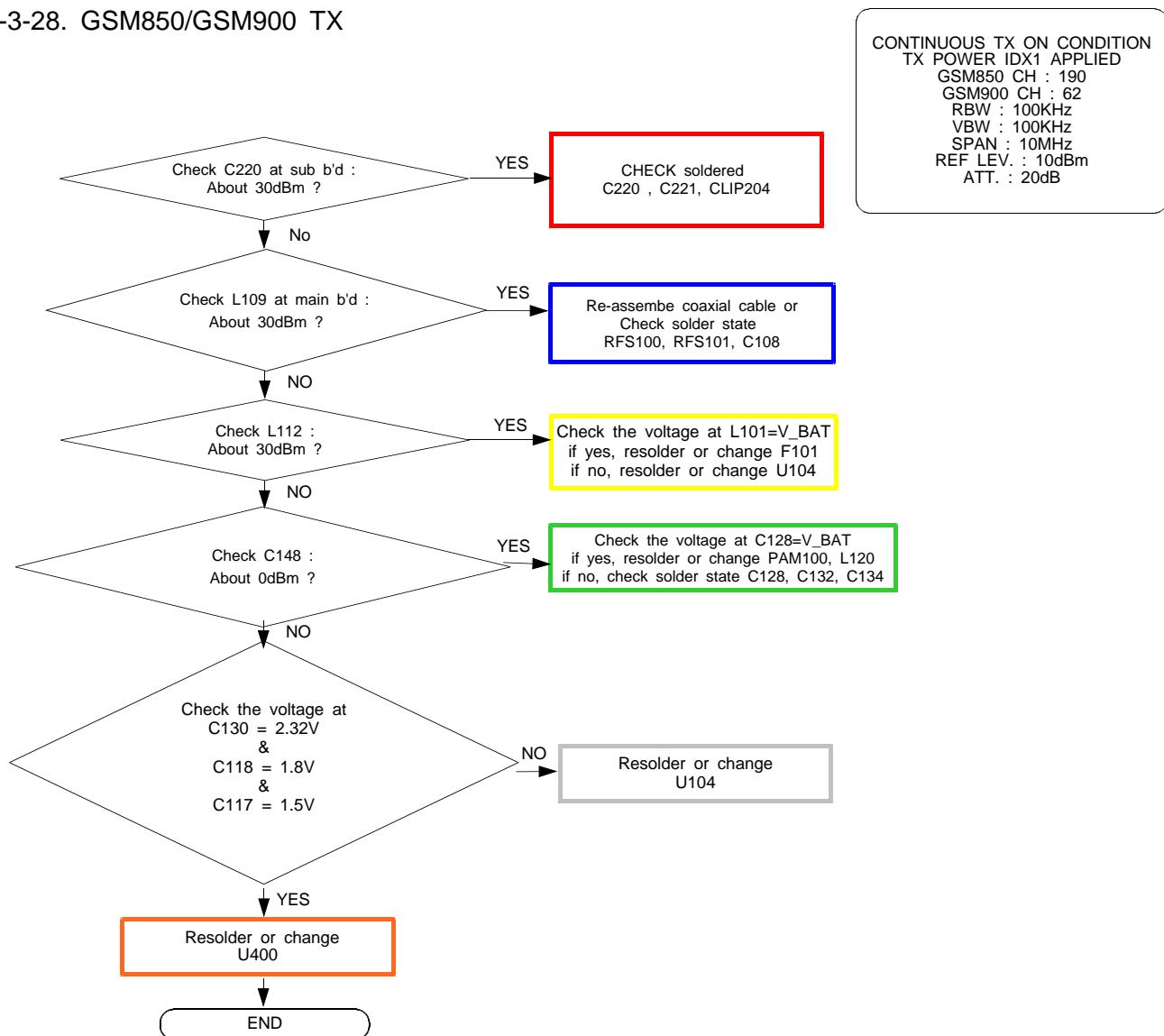


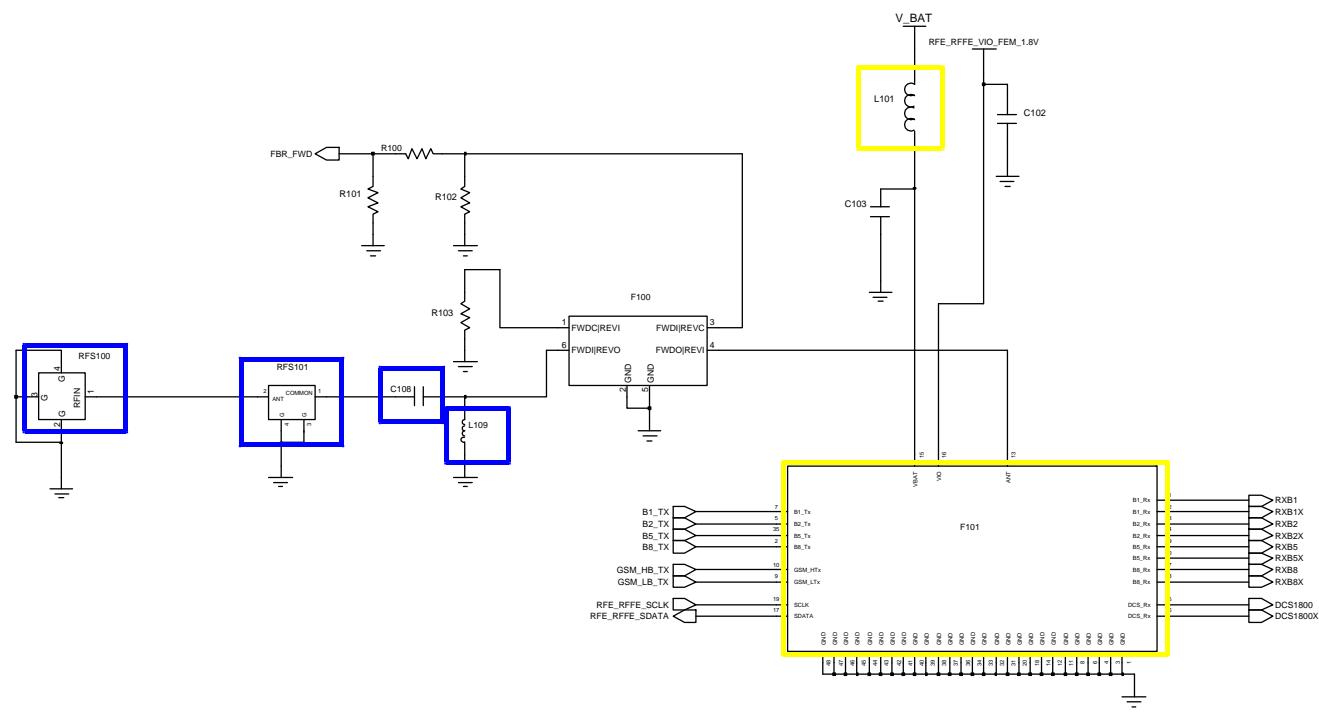
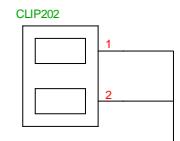
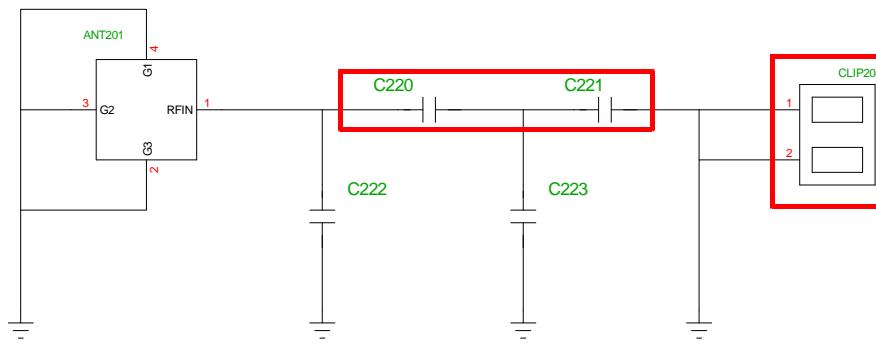
CONTINUOUS RX ON
RF INPUT : 9800CH
AMP : -50dBm

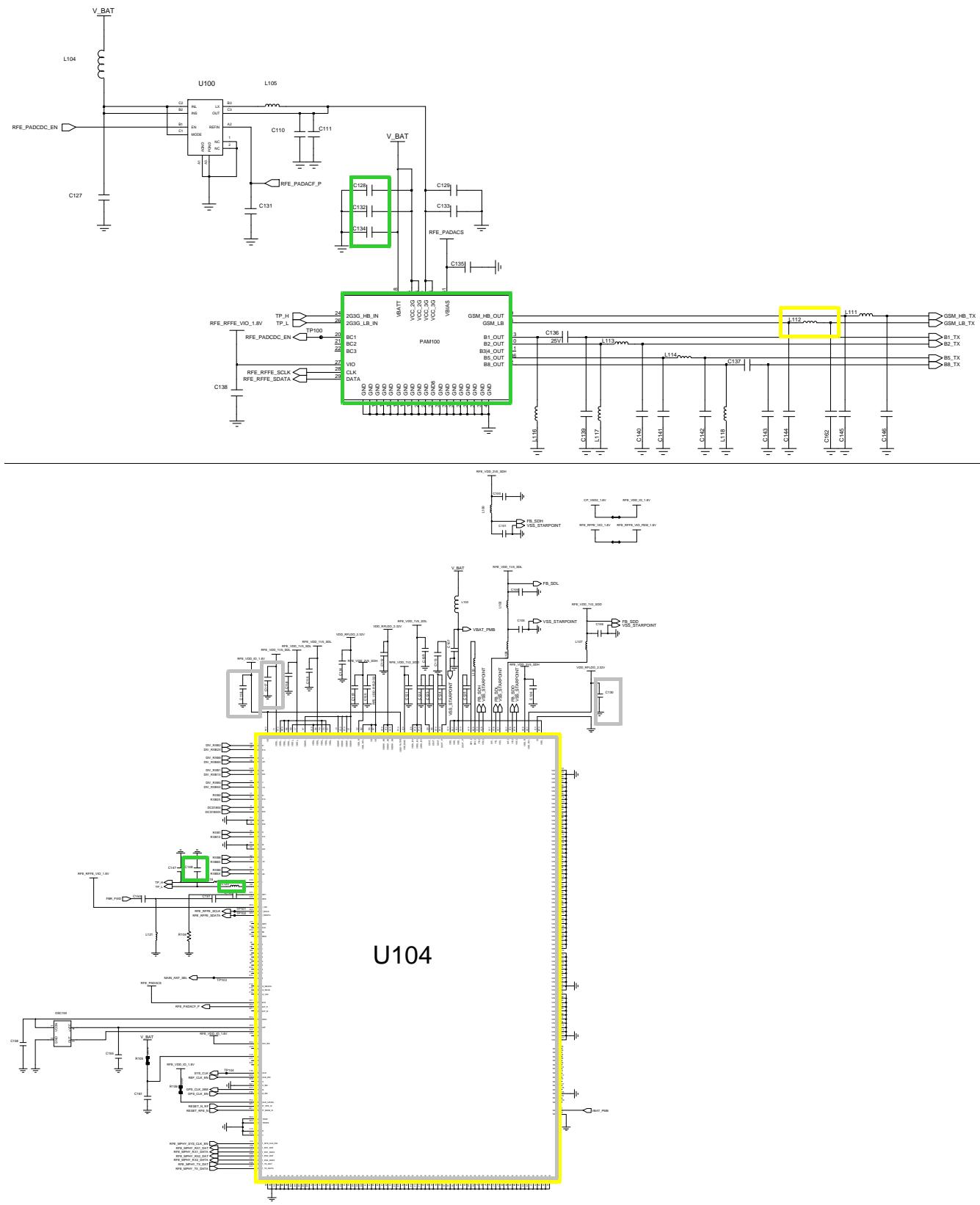


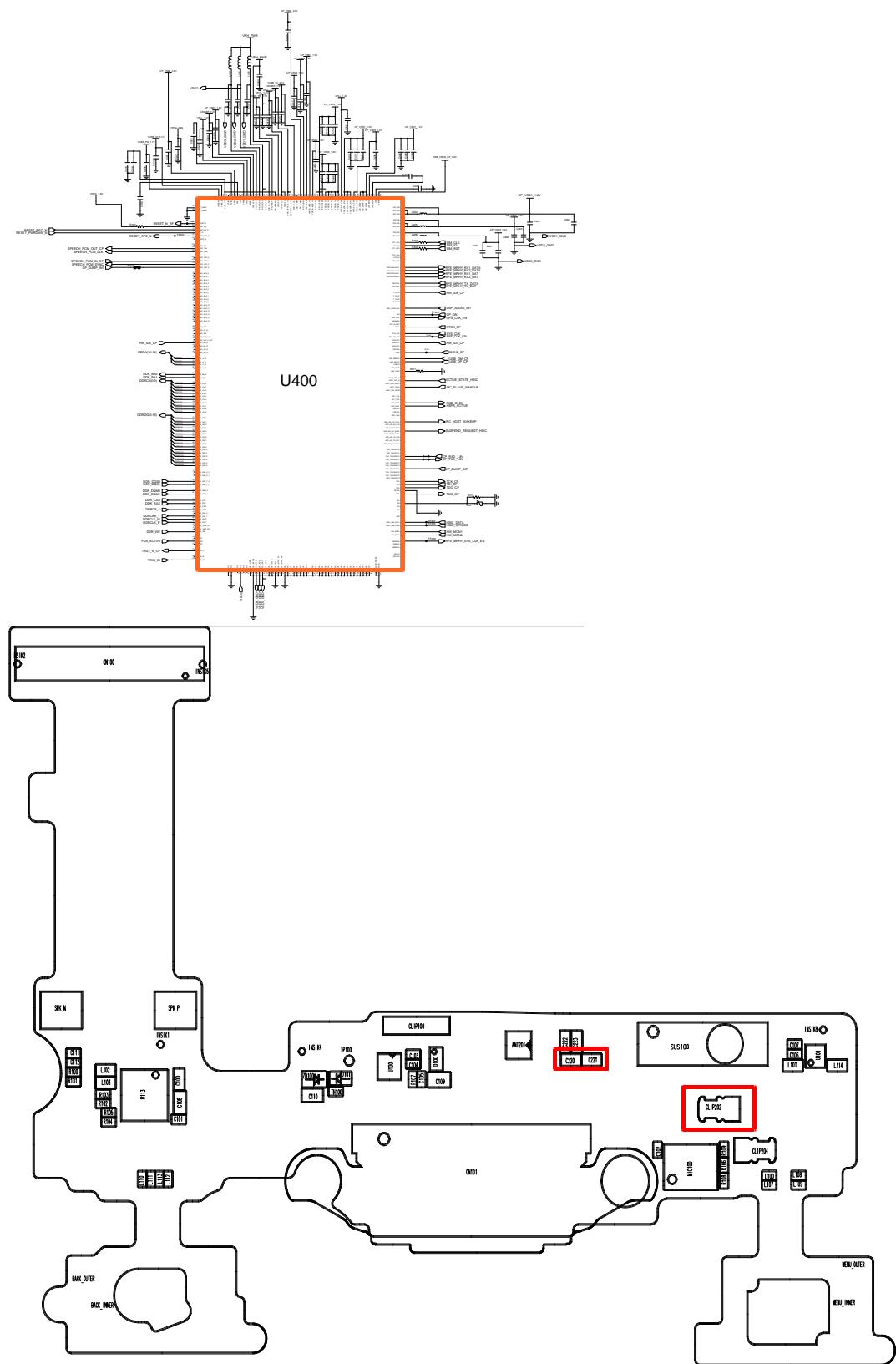


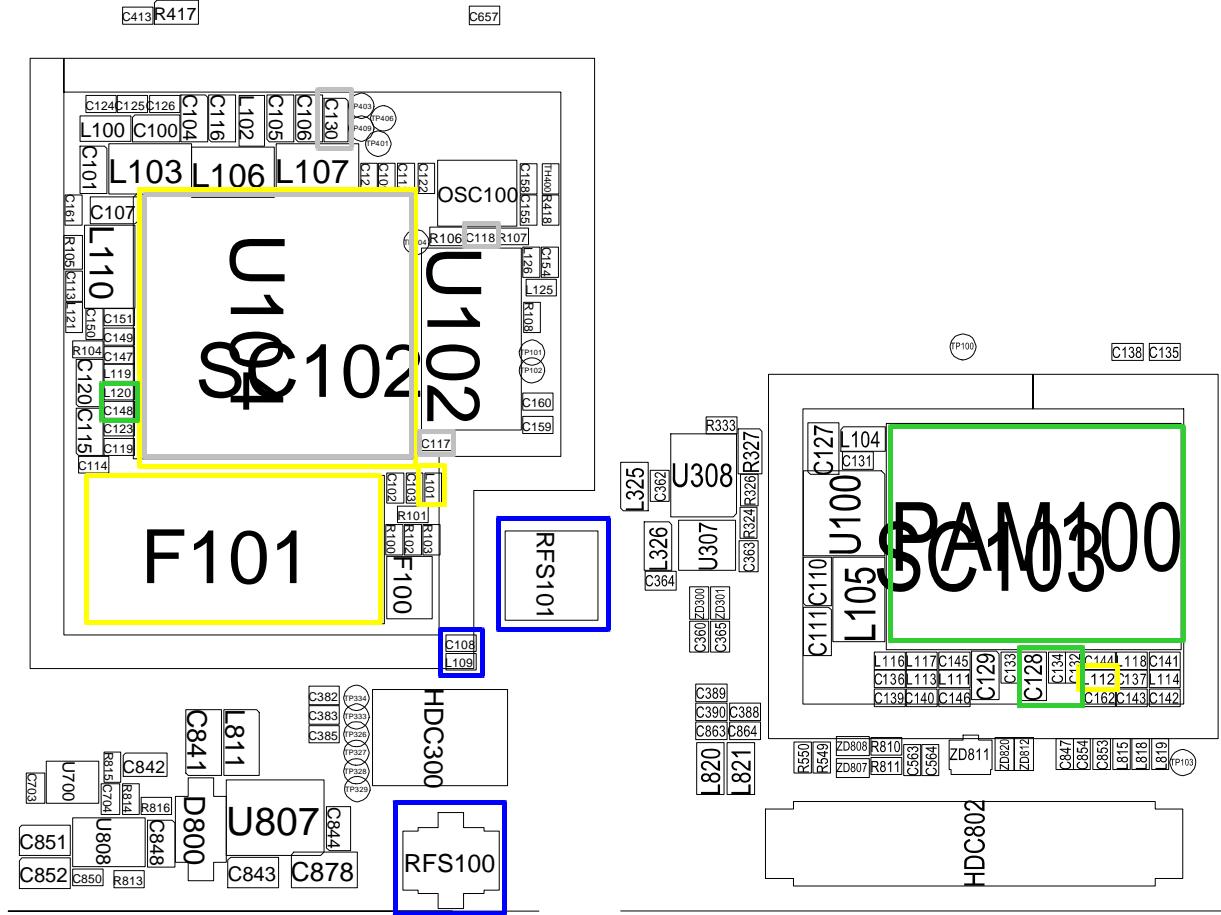
8-3-28. GSM850/GSM900 TX

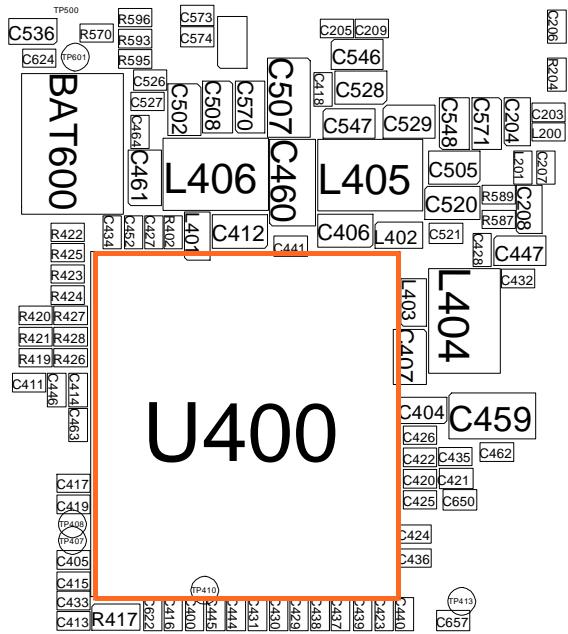




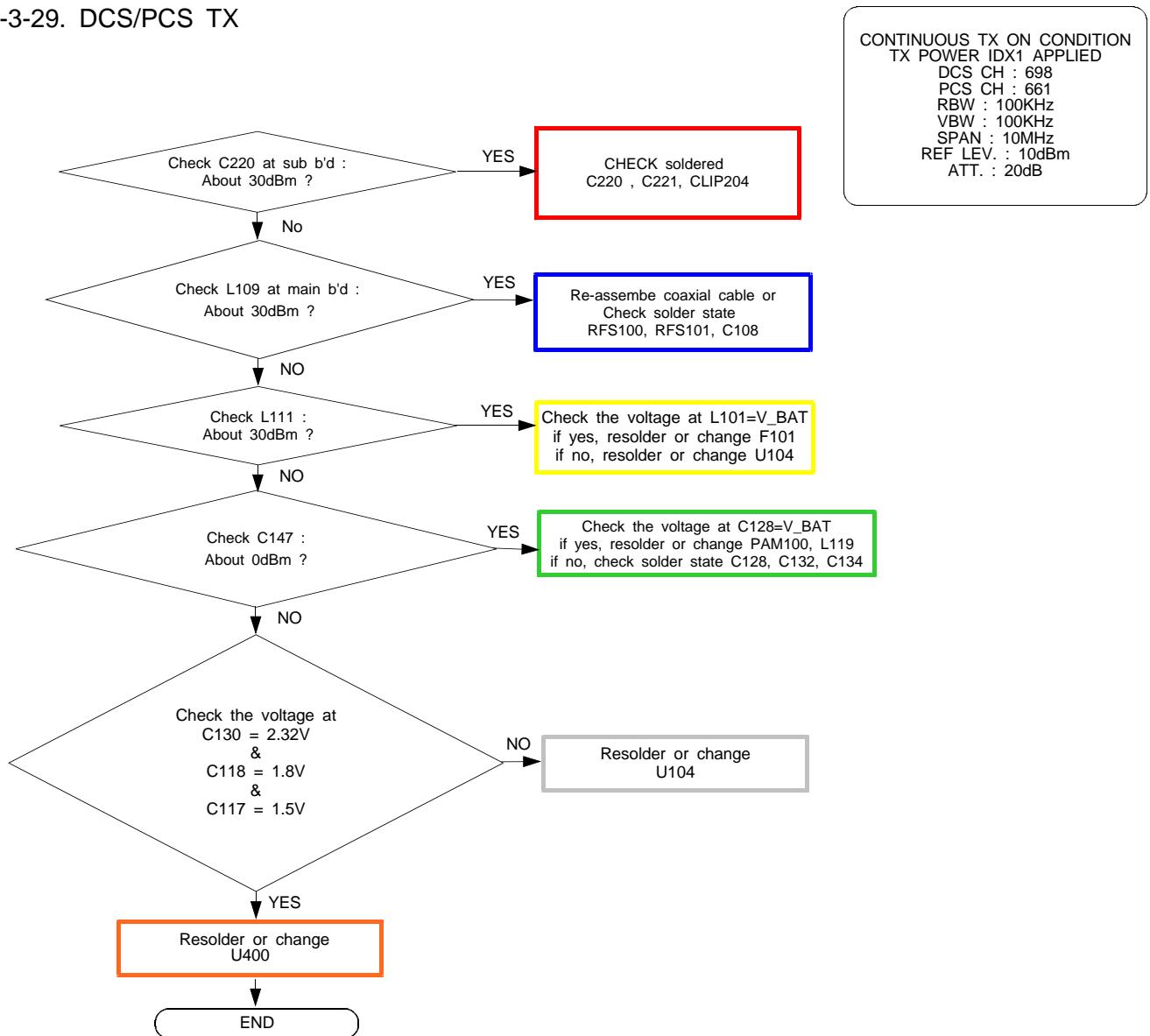


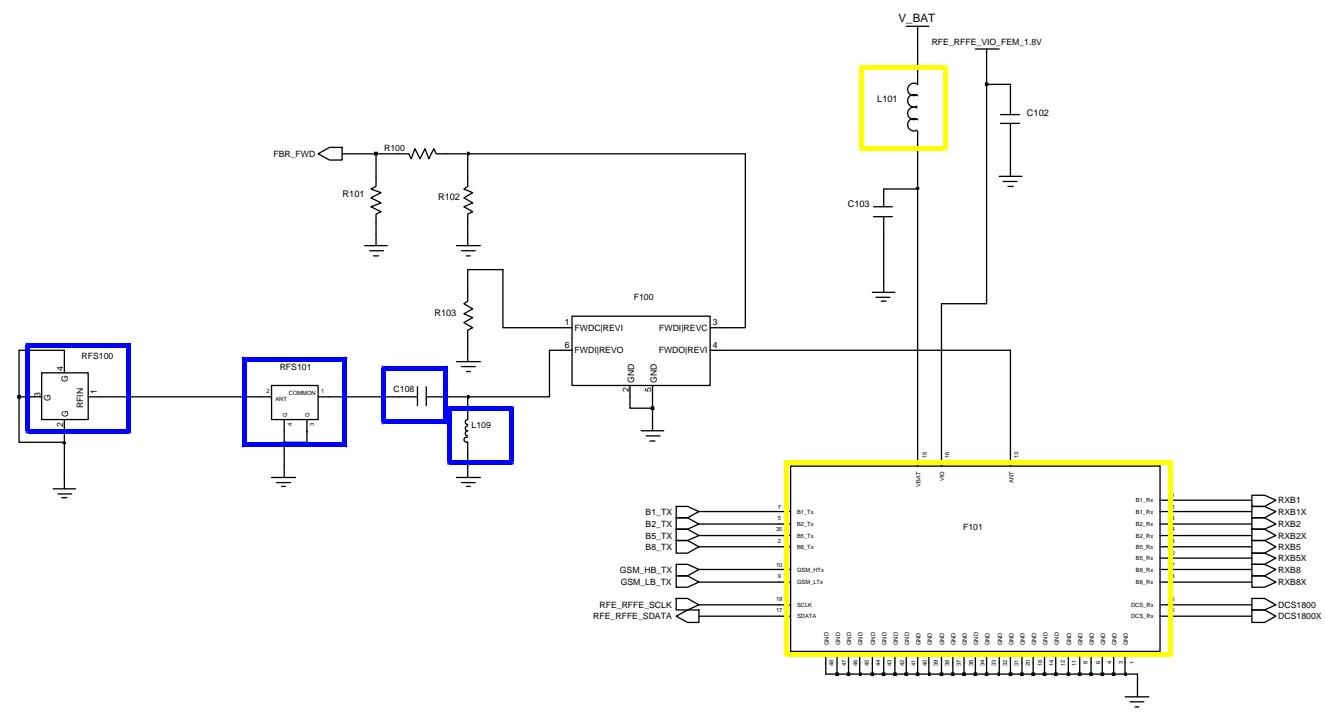
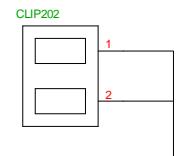
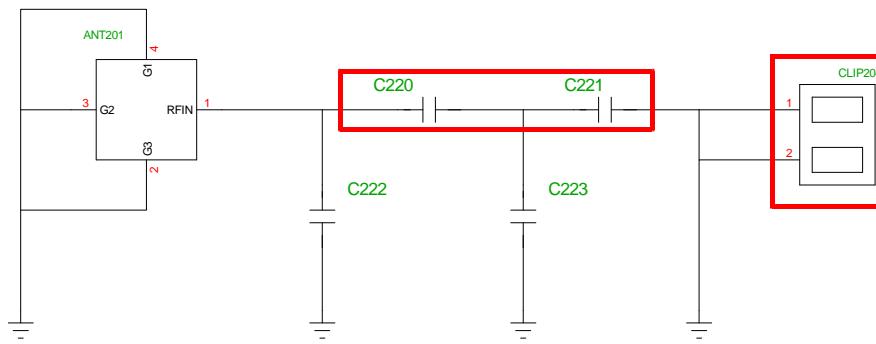


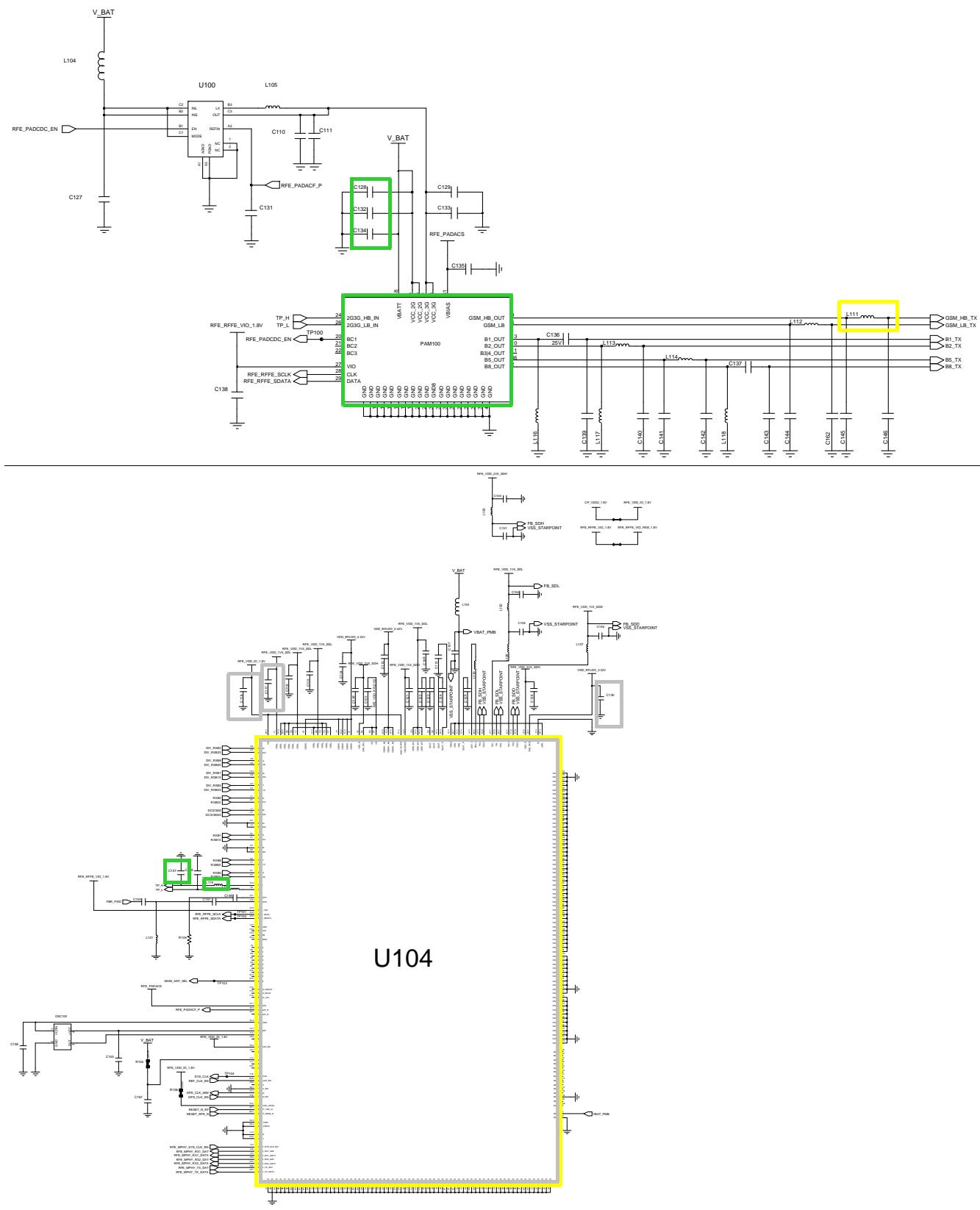


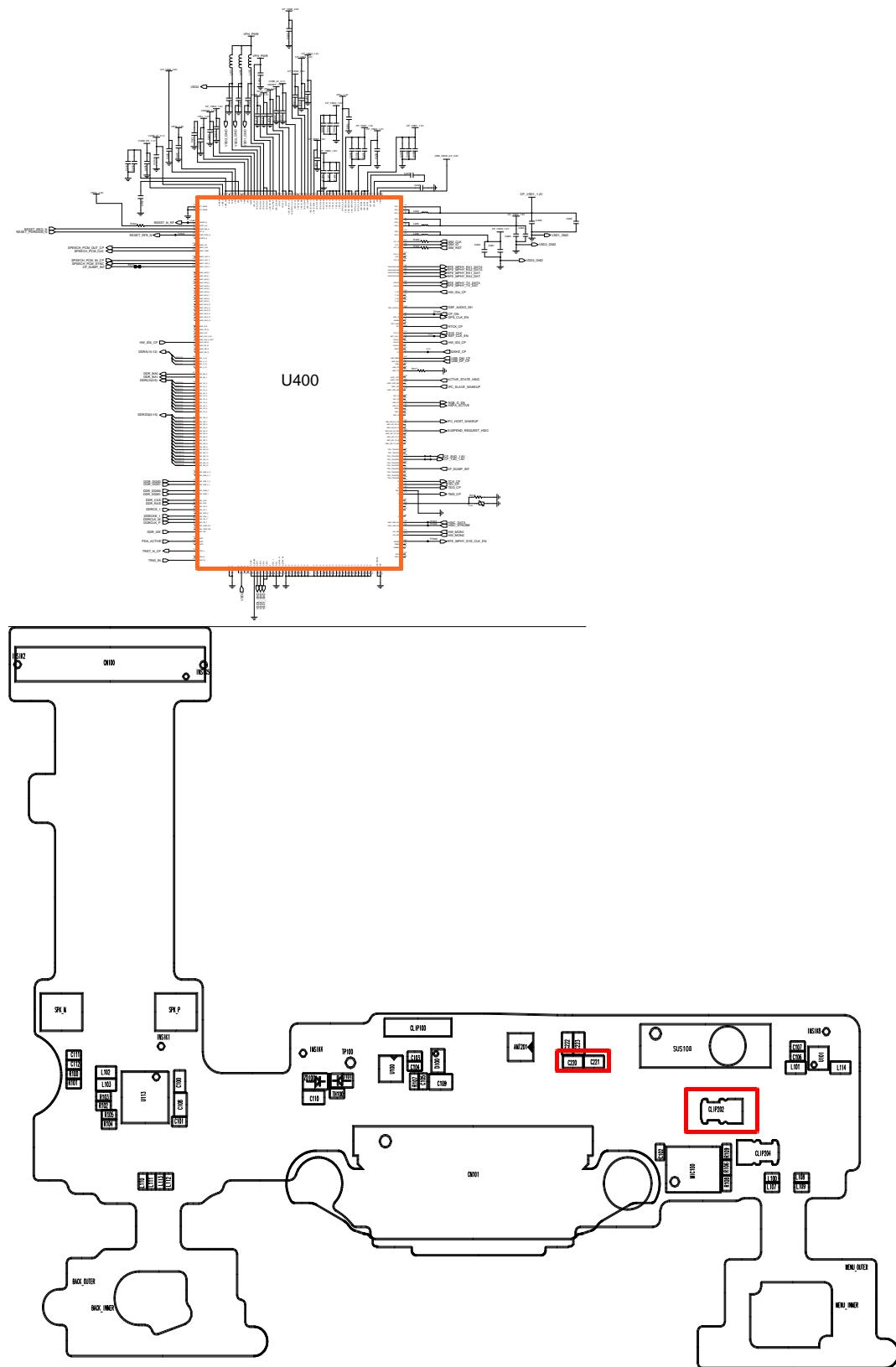


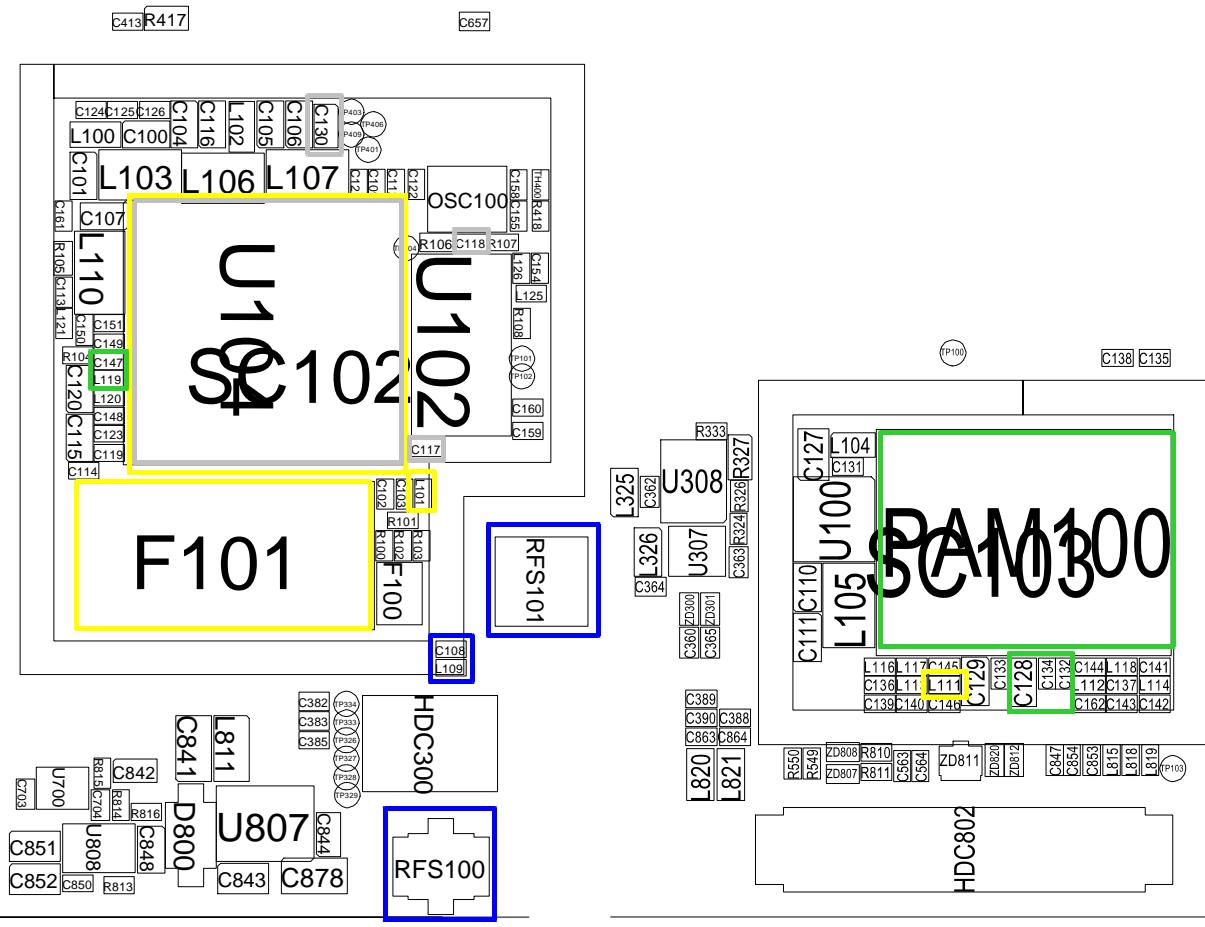
8-3-29. DCS/PCS TX

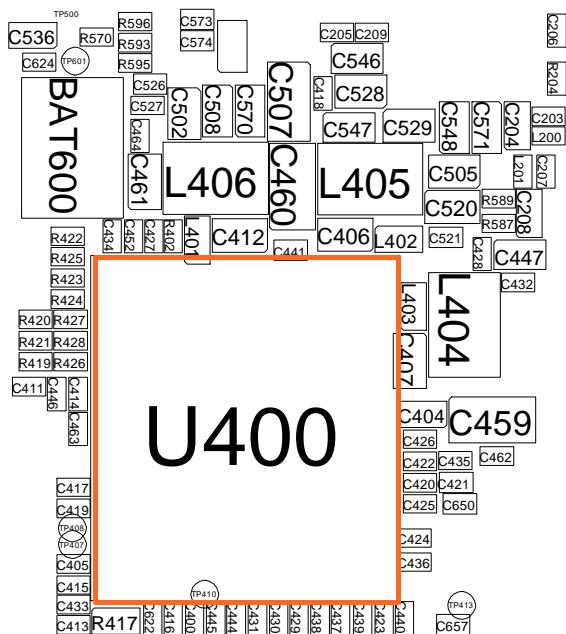




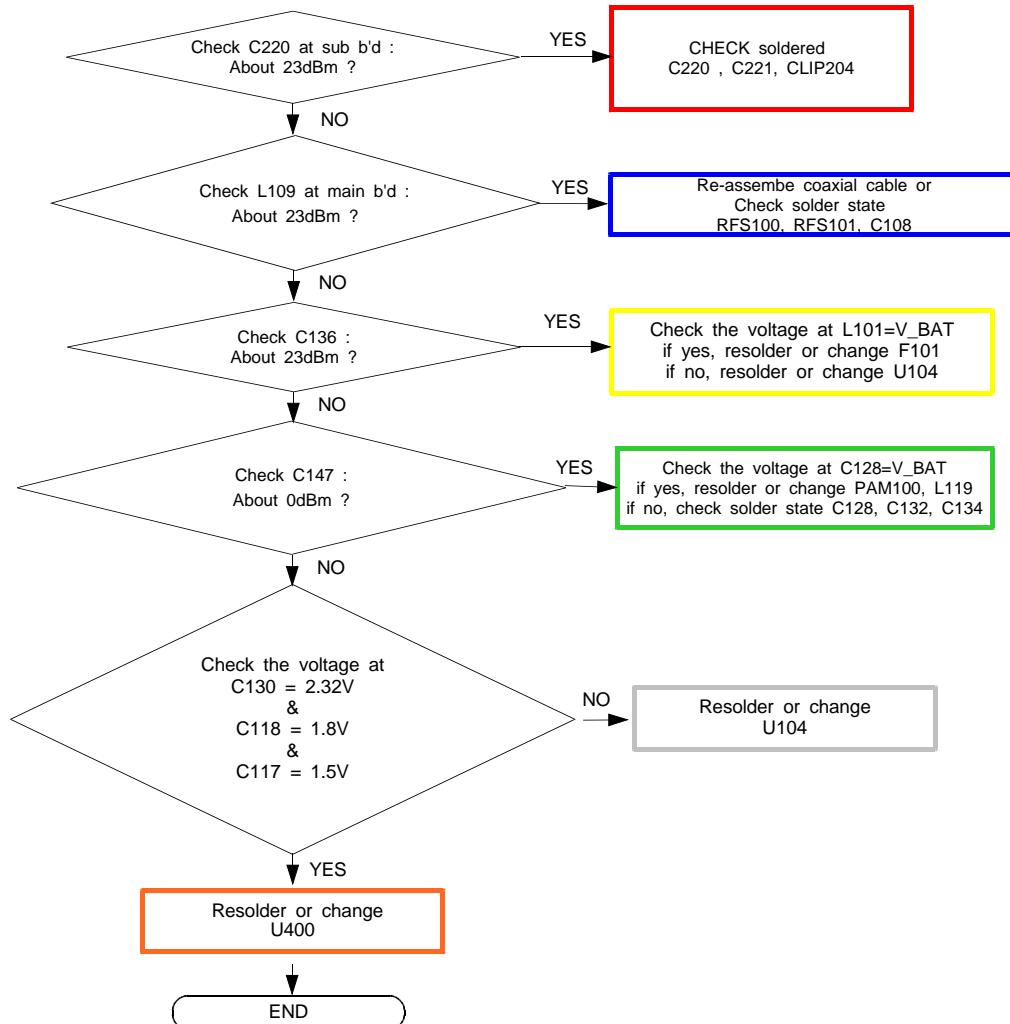


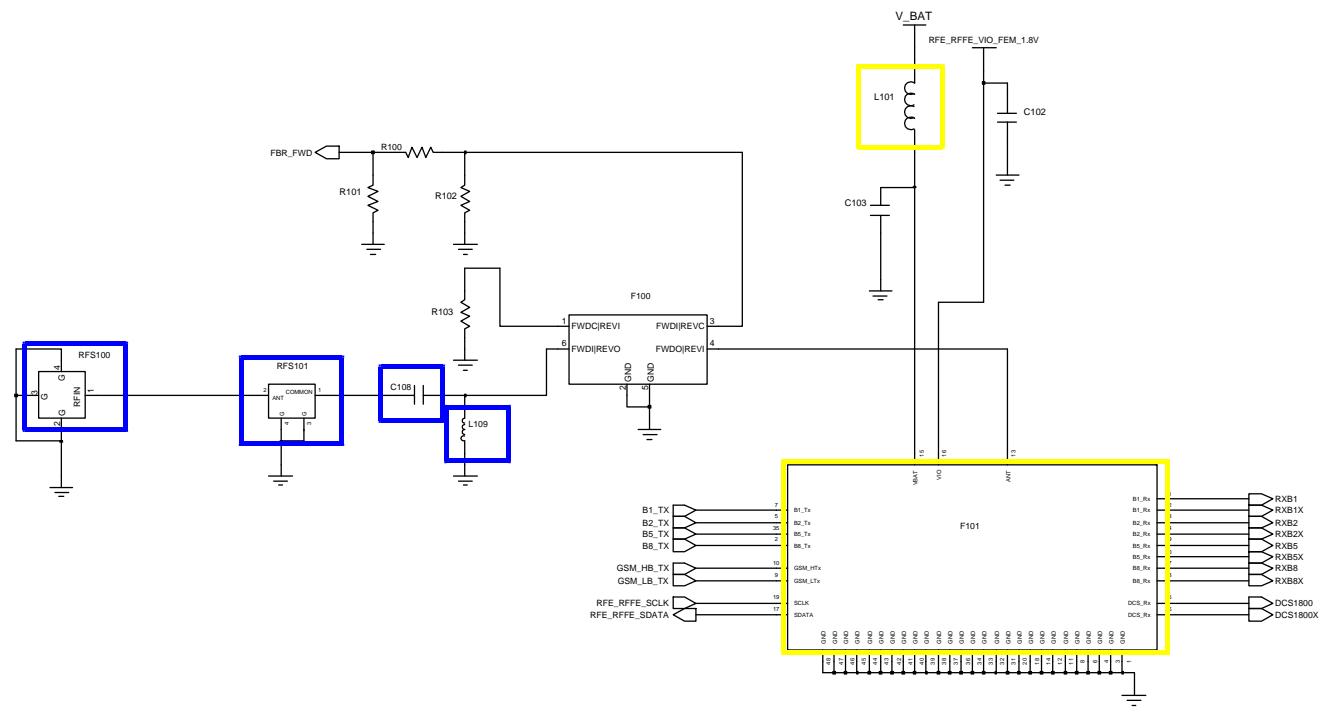
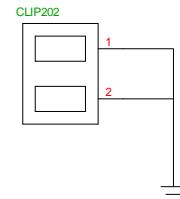
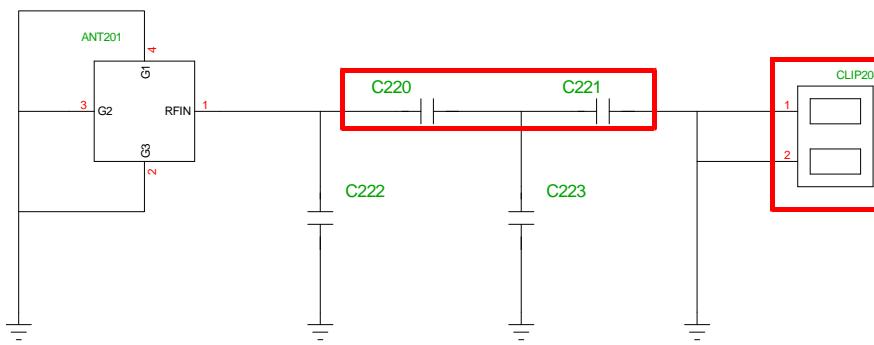


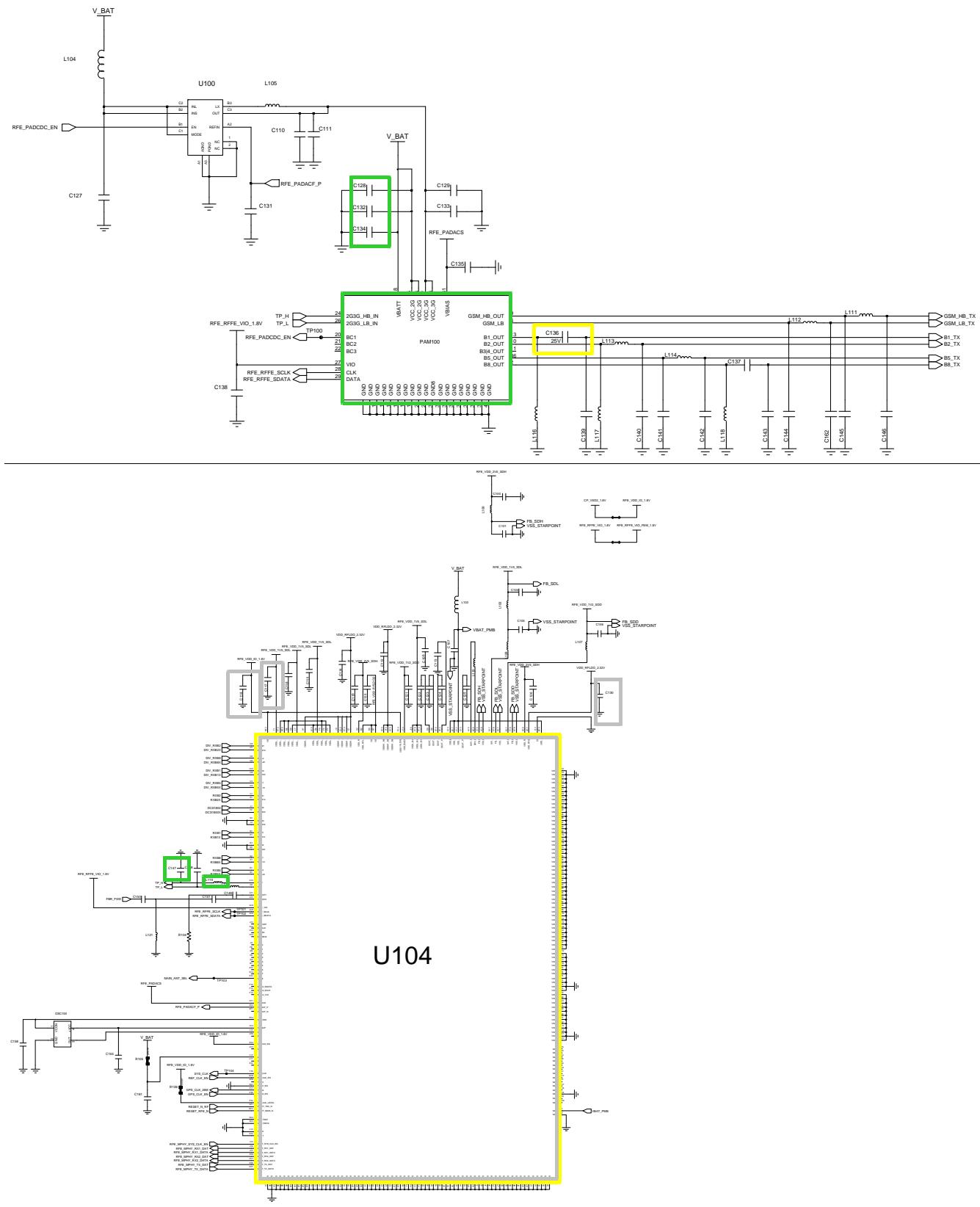


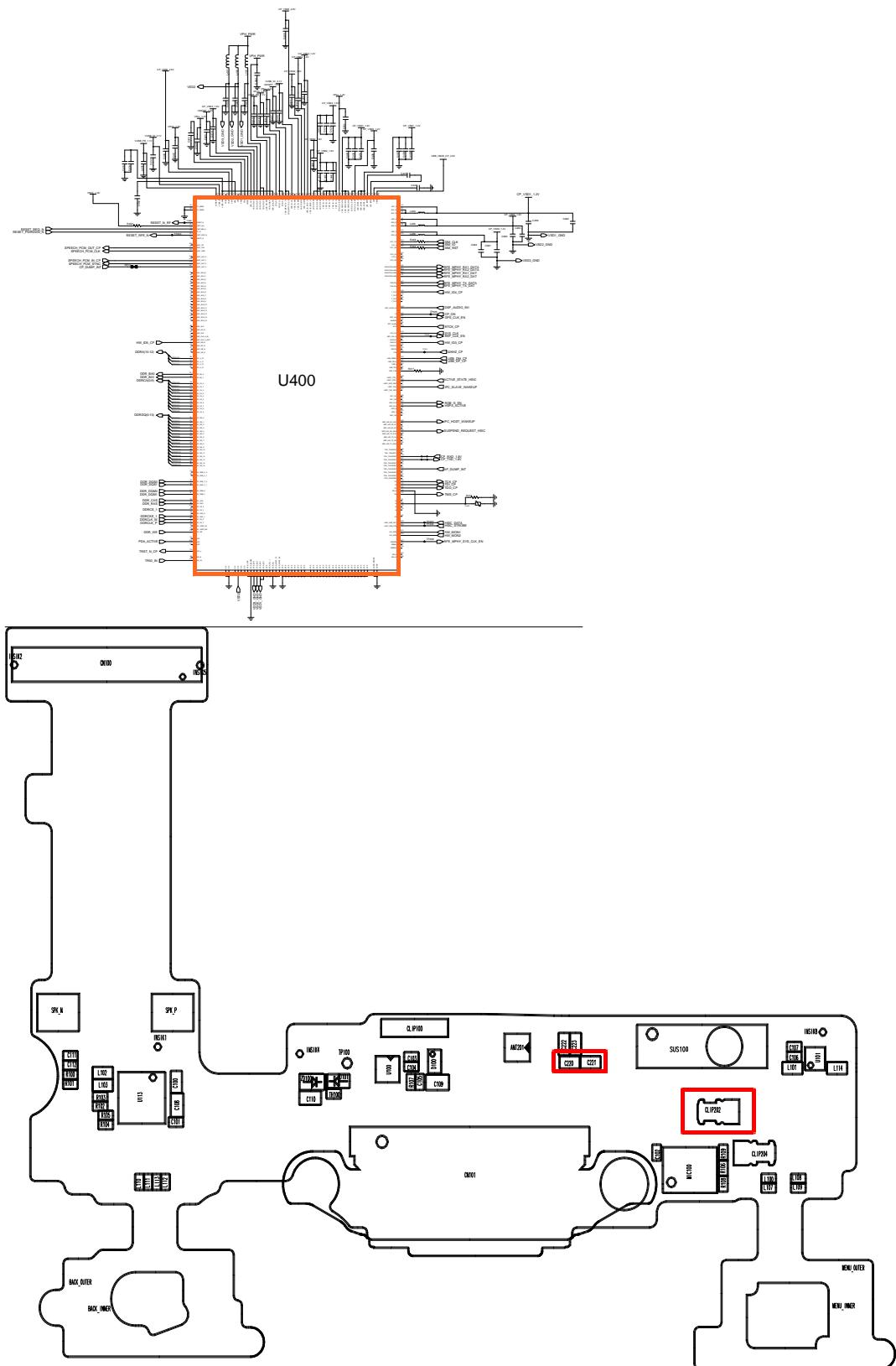


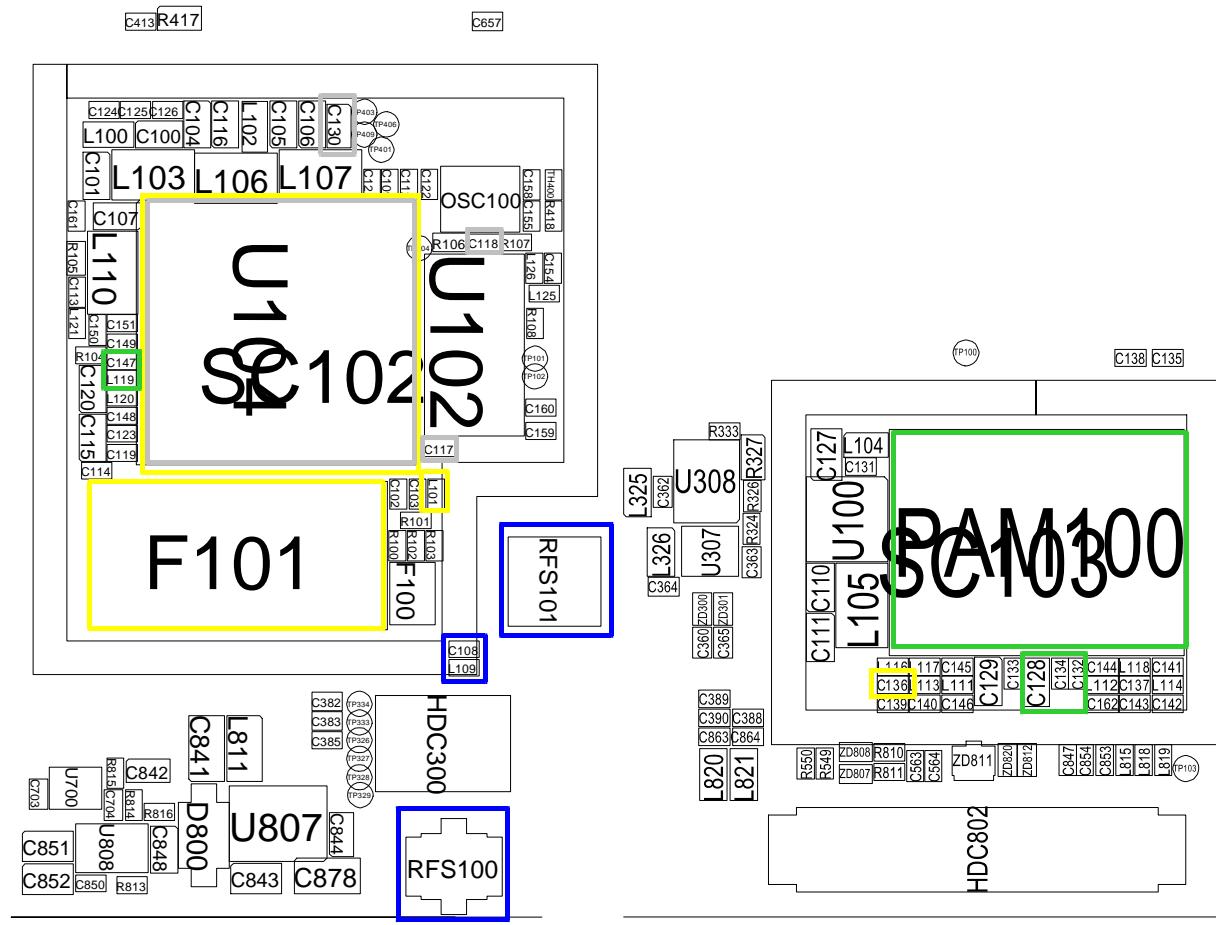
8-3-30. WCDMA2100 TX

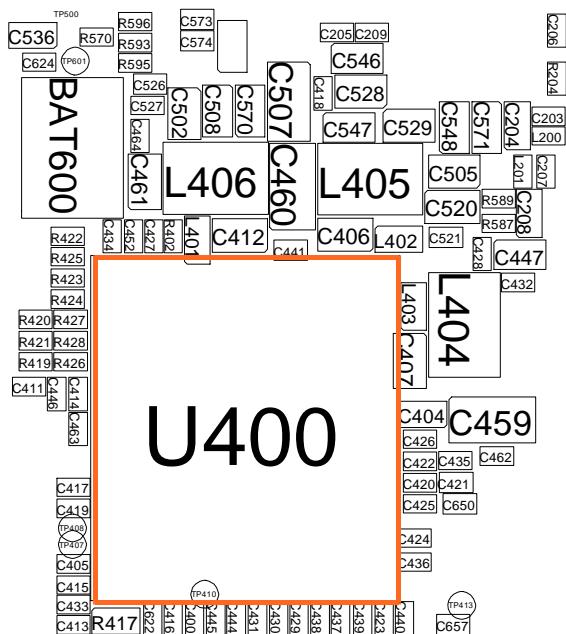




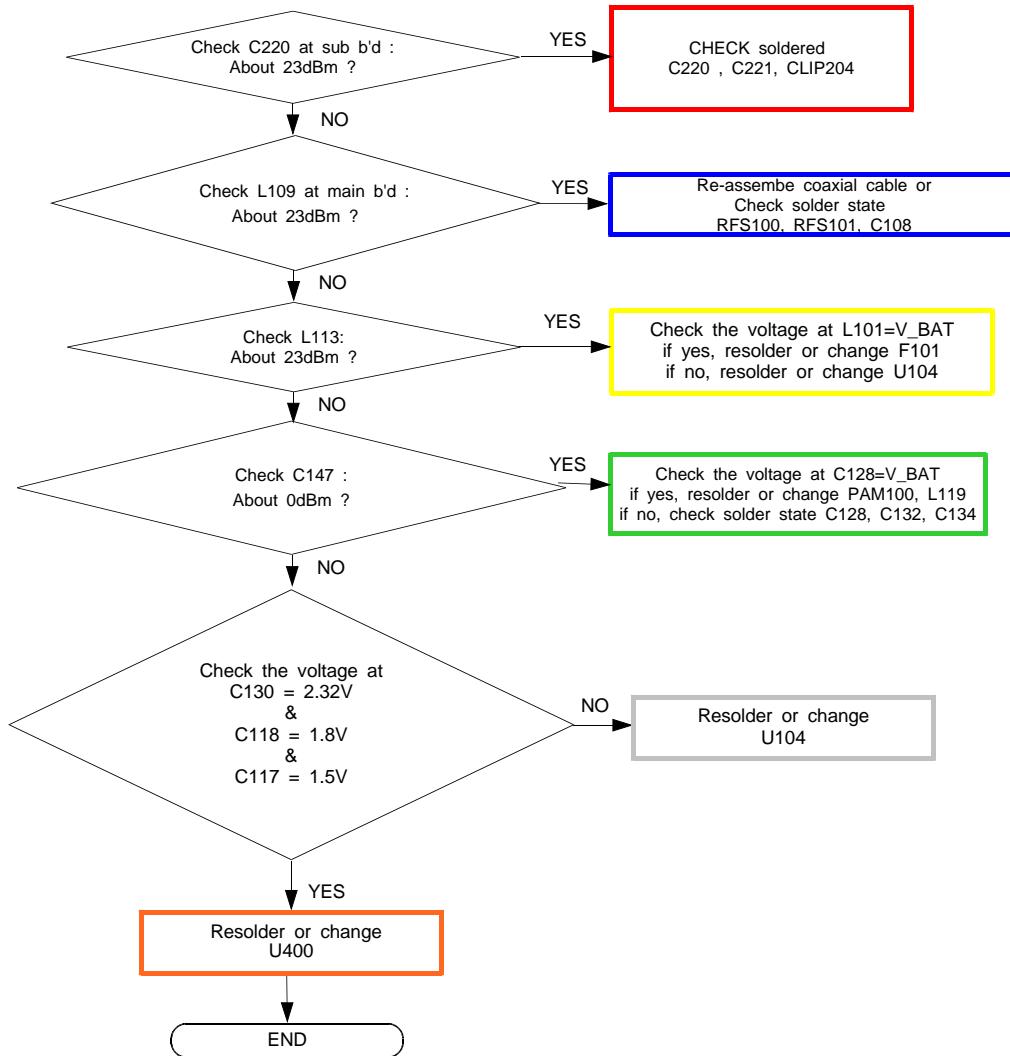


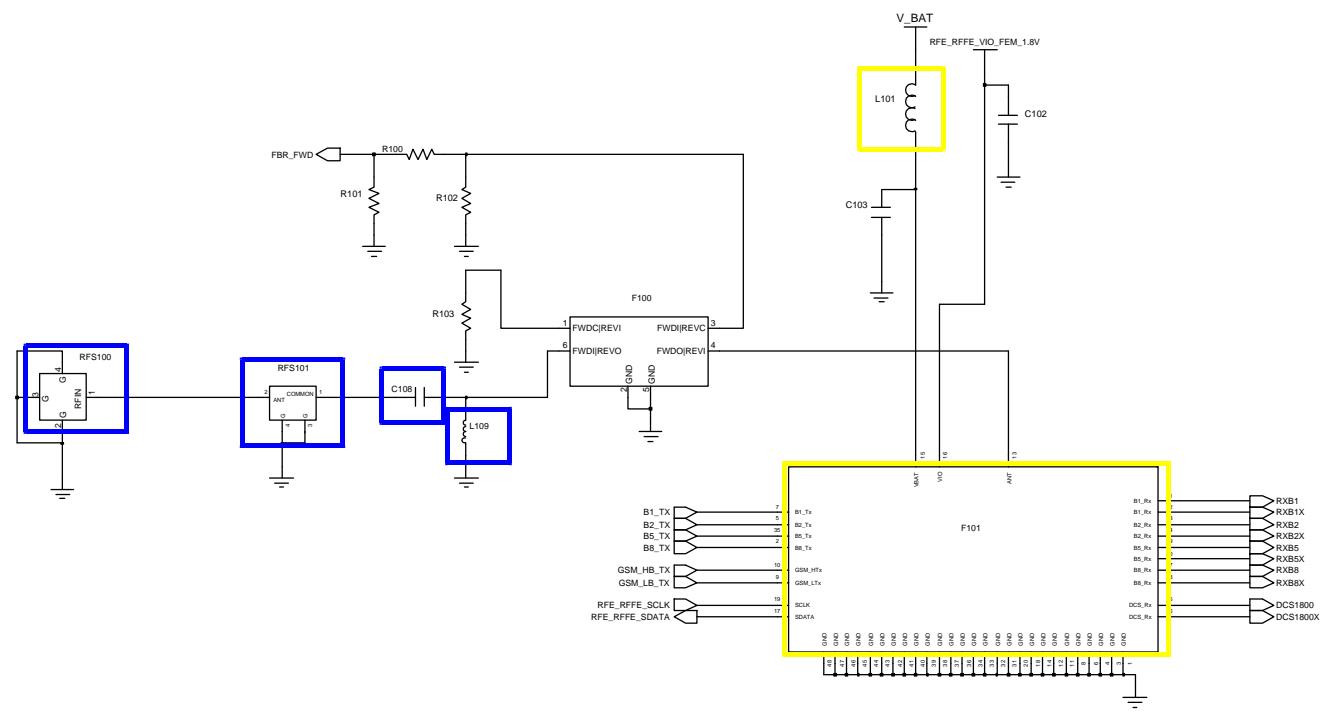
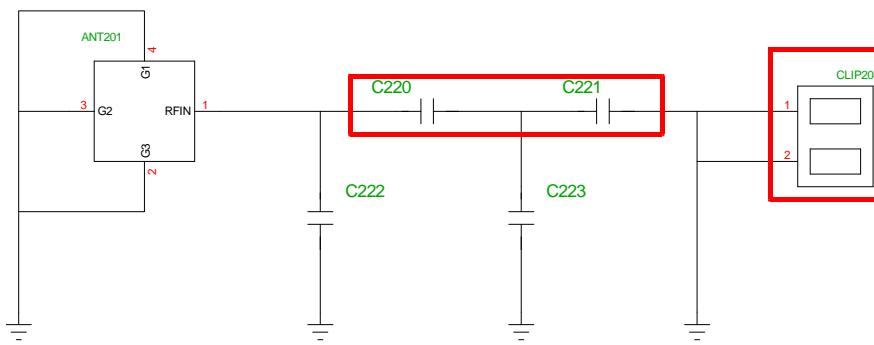


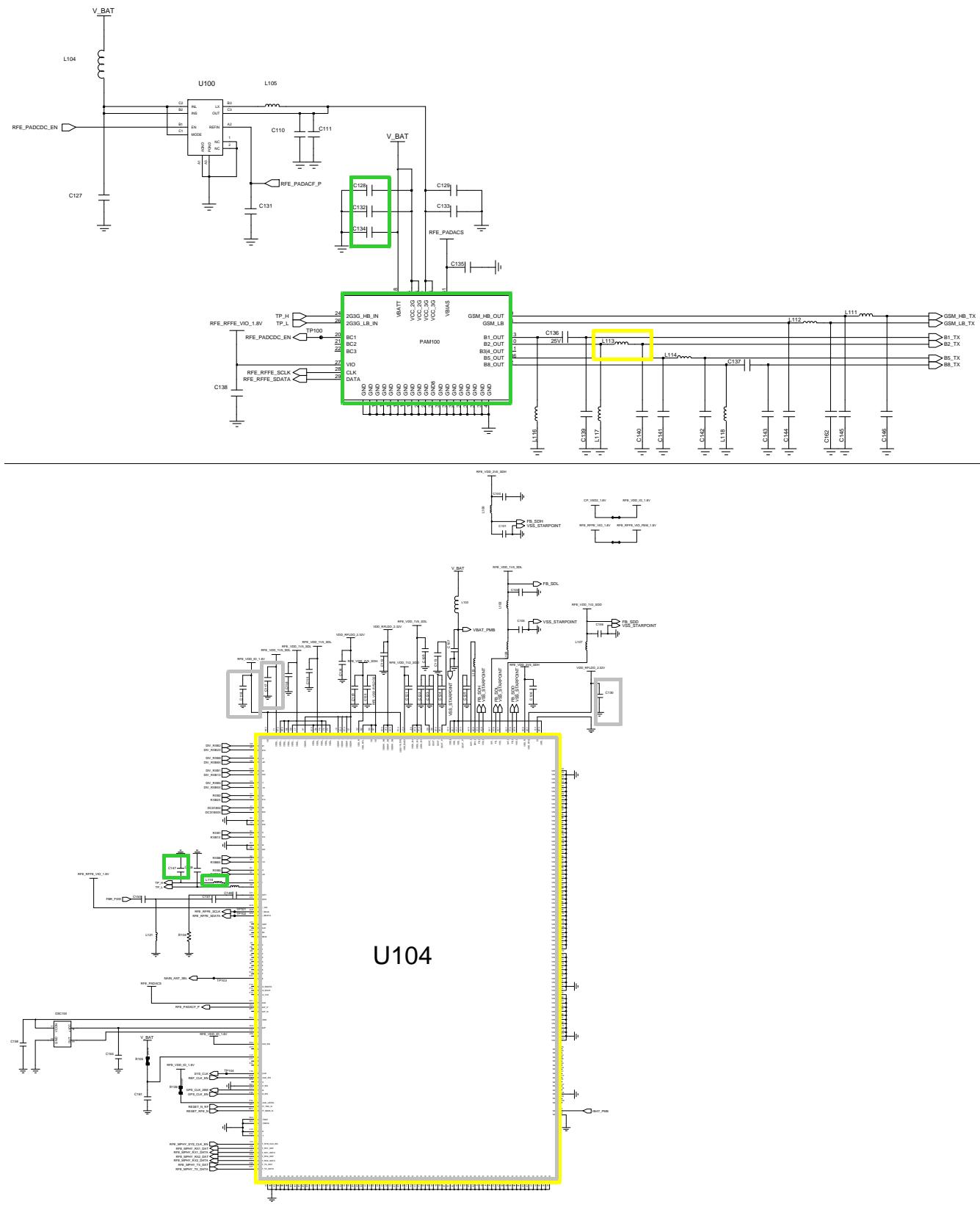


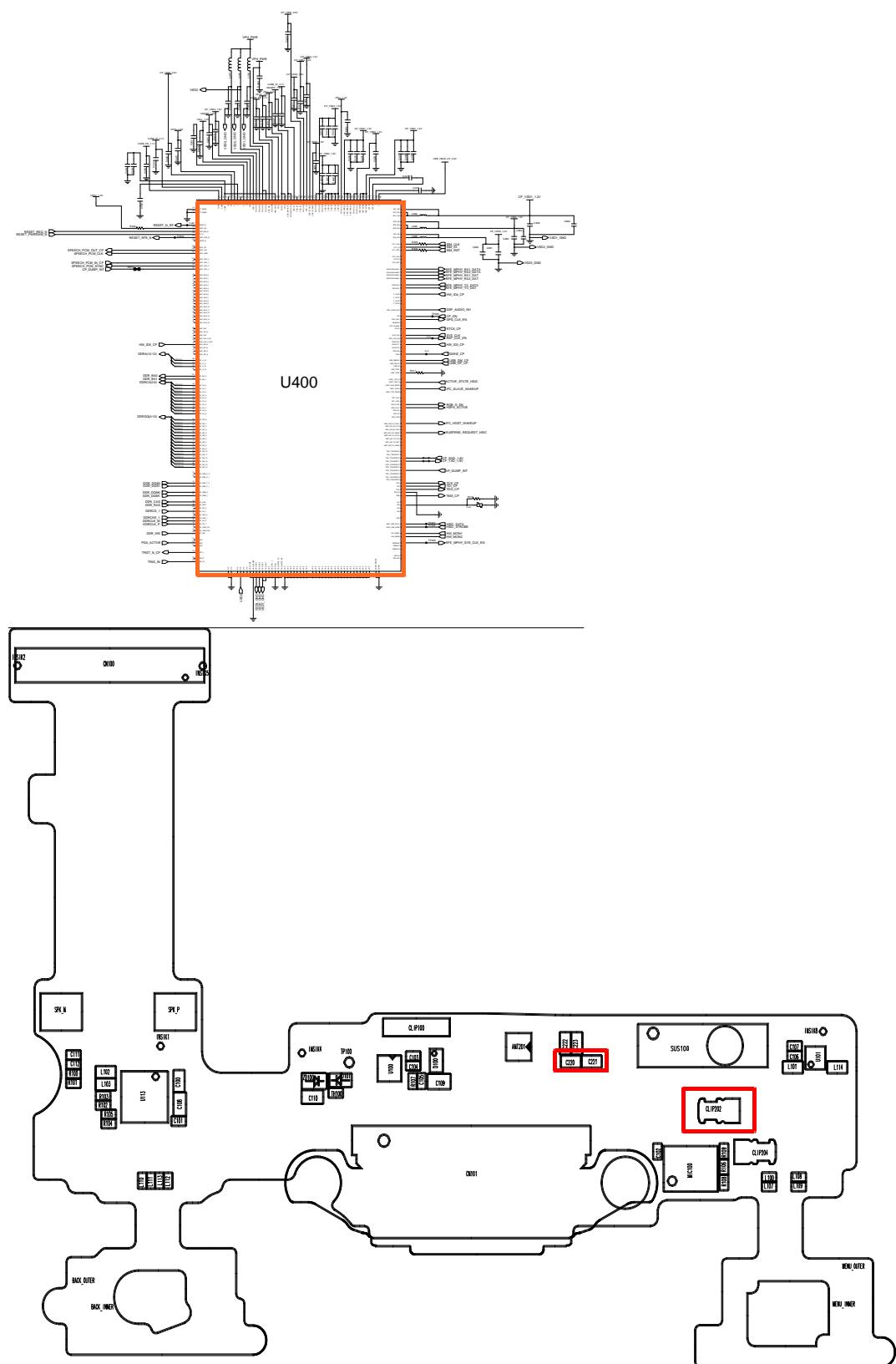


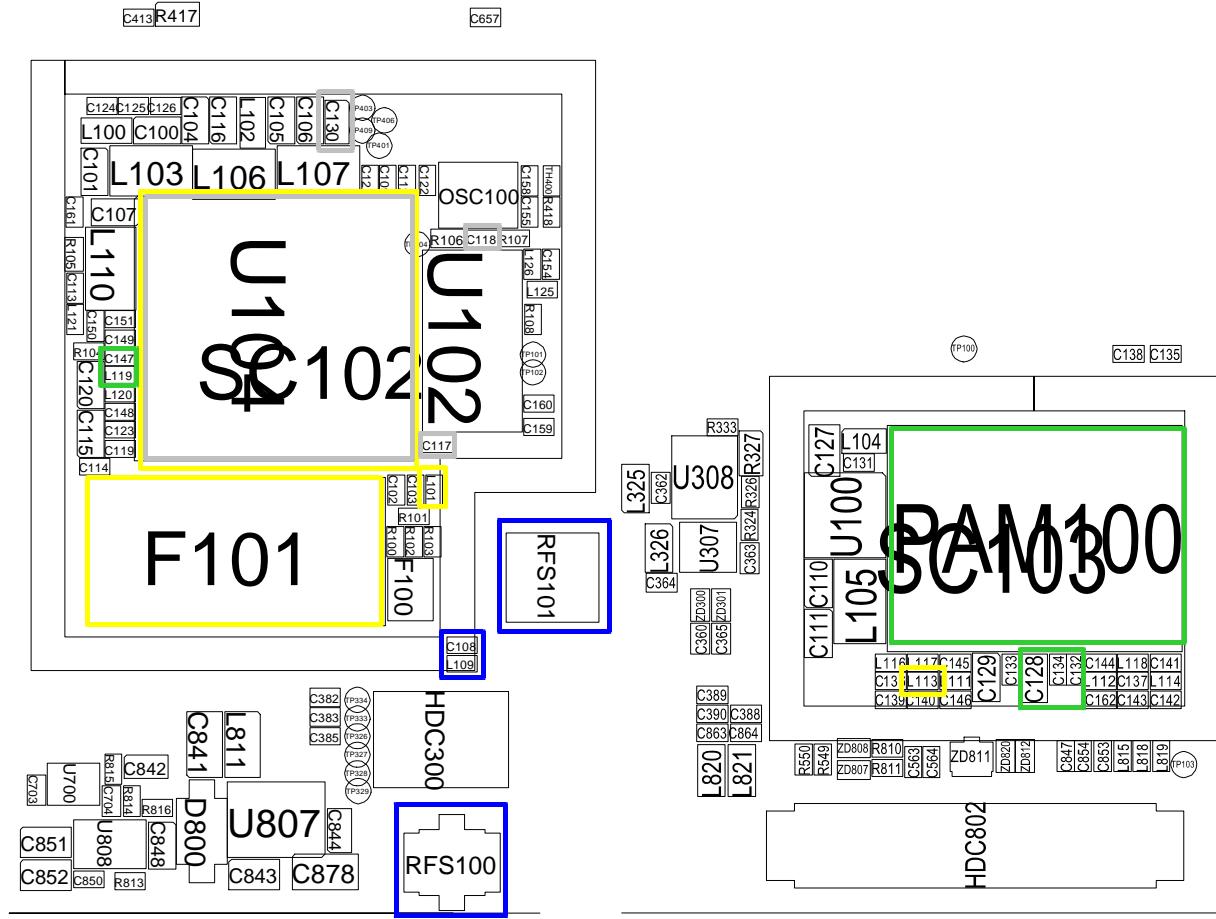
8-3-31. WCDMA1900 TX

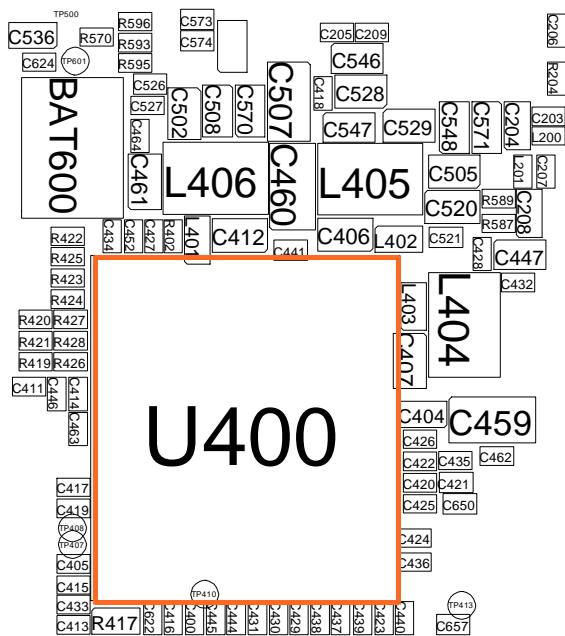




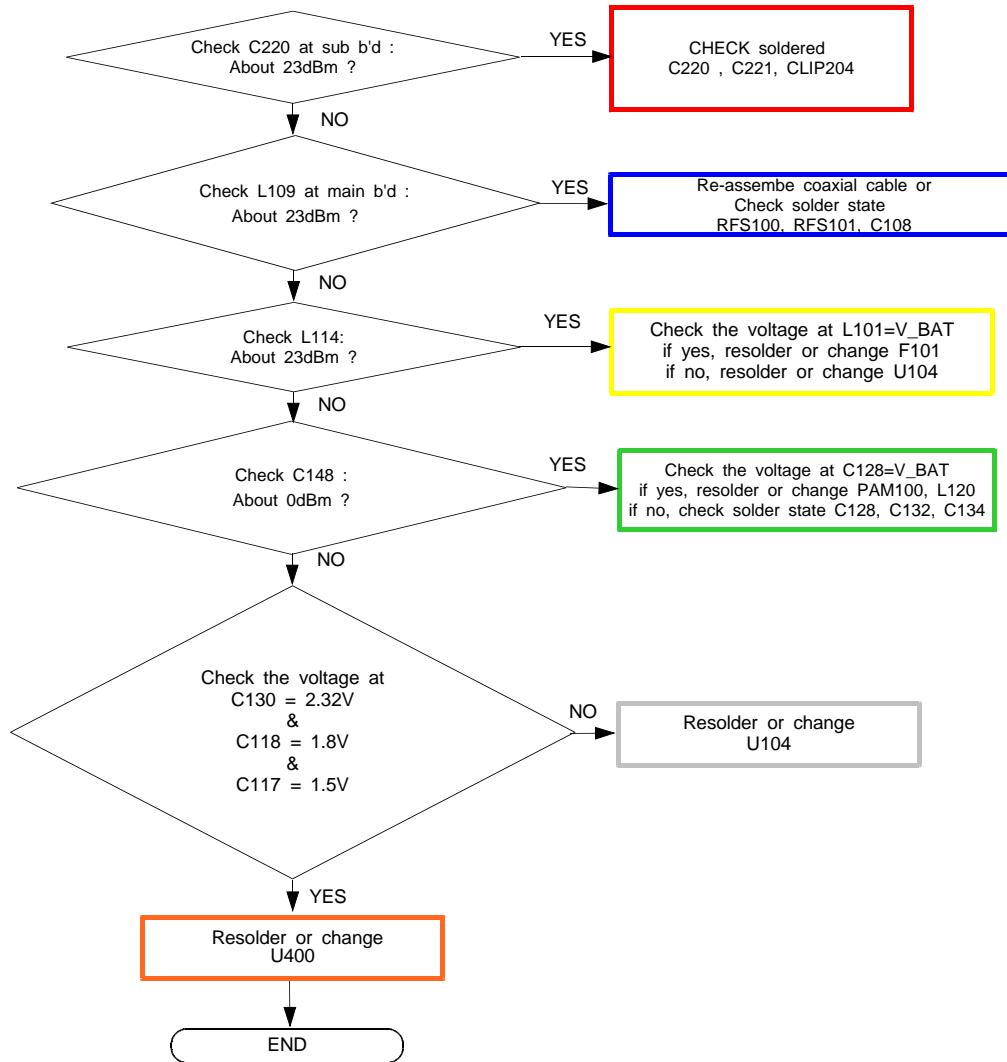


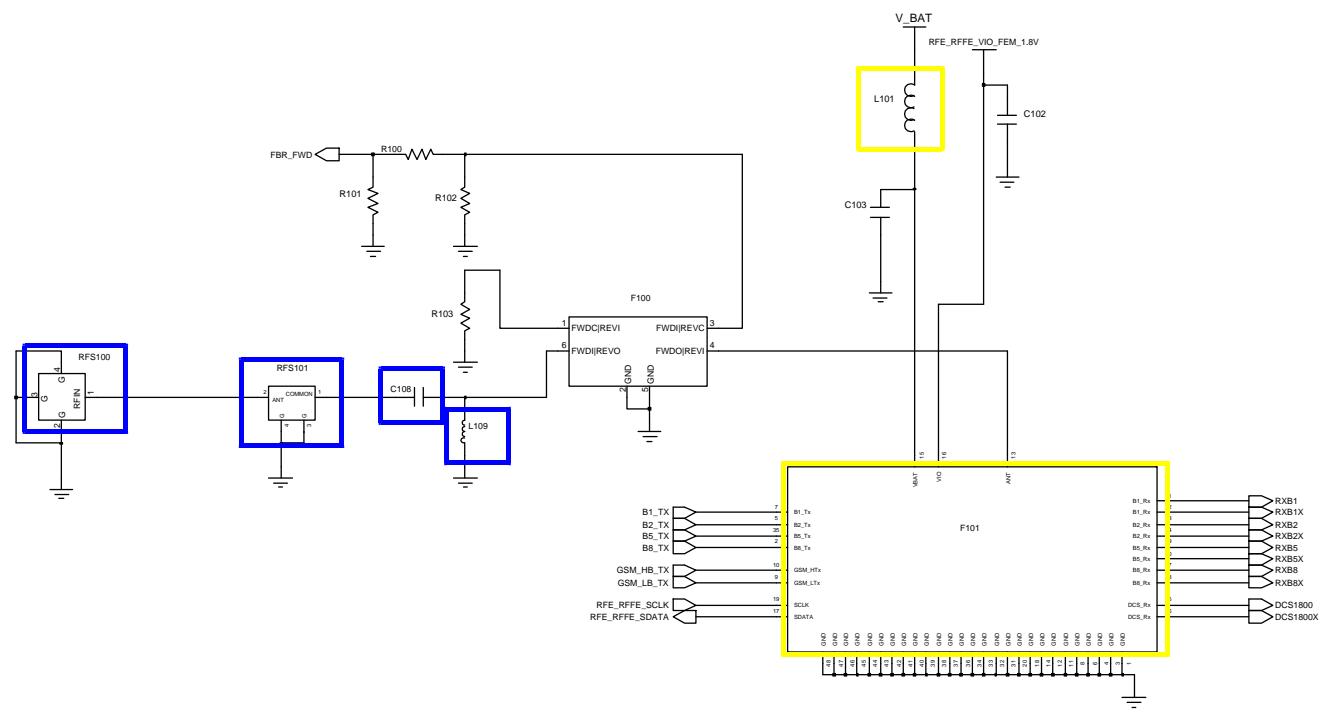
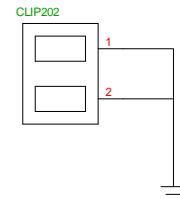
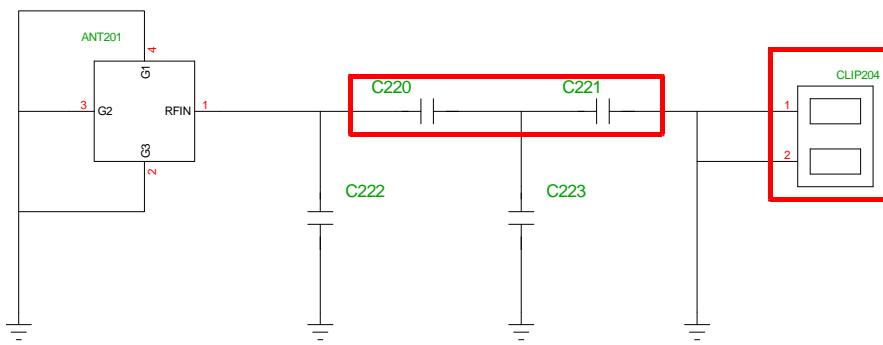


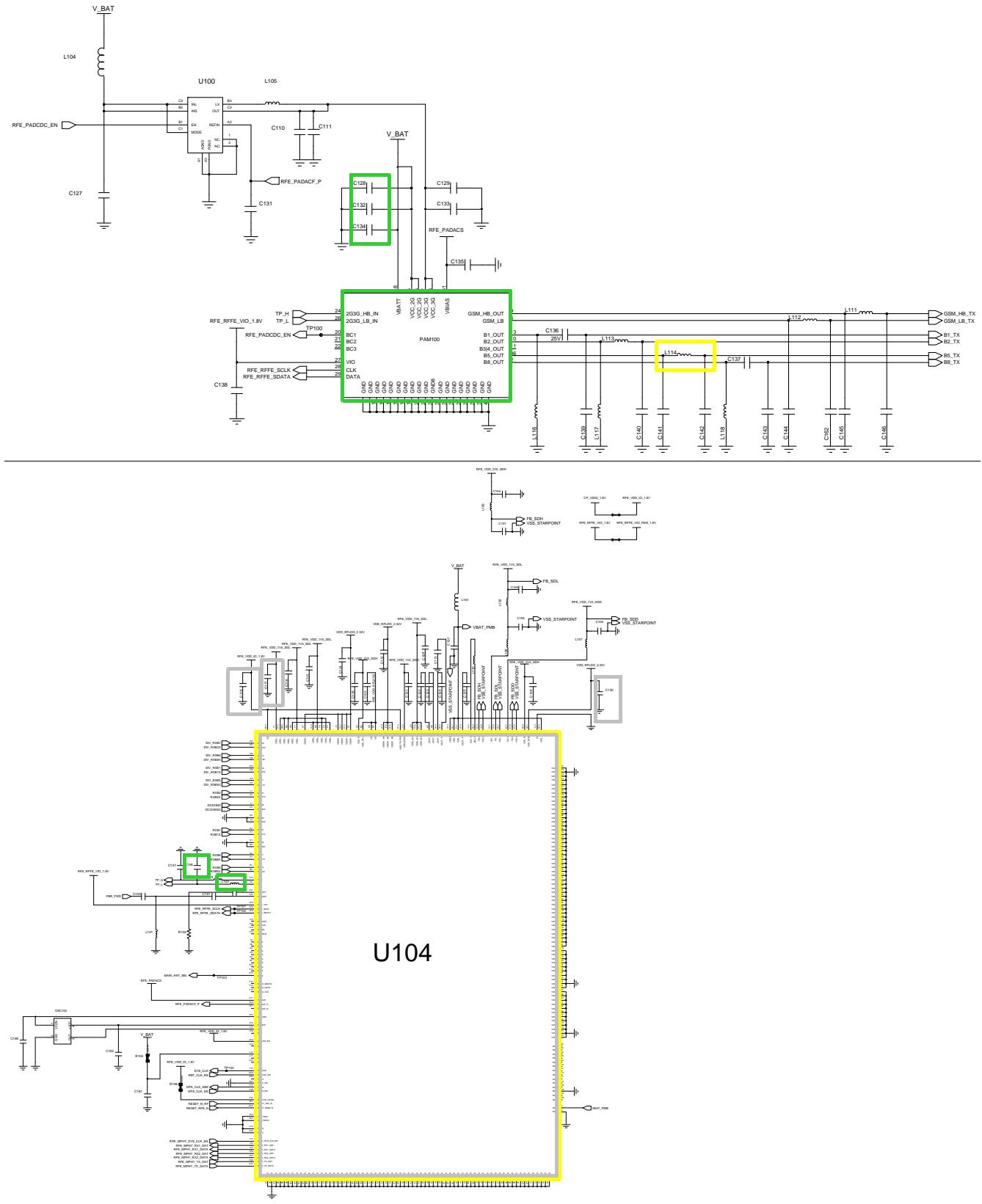


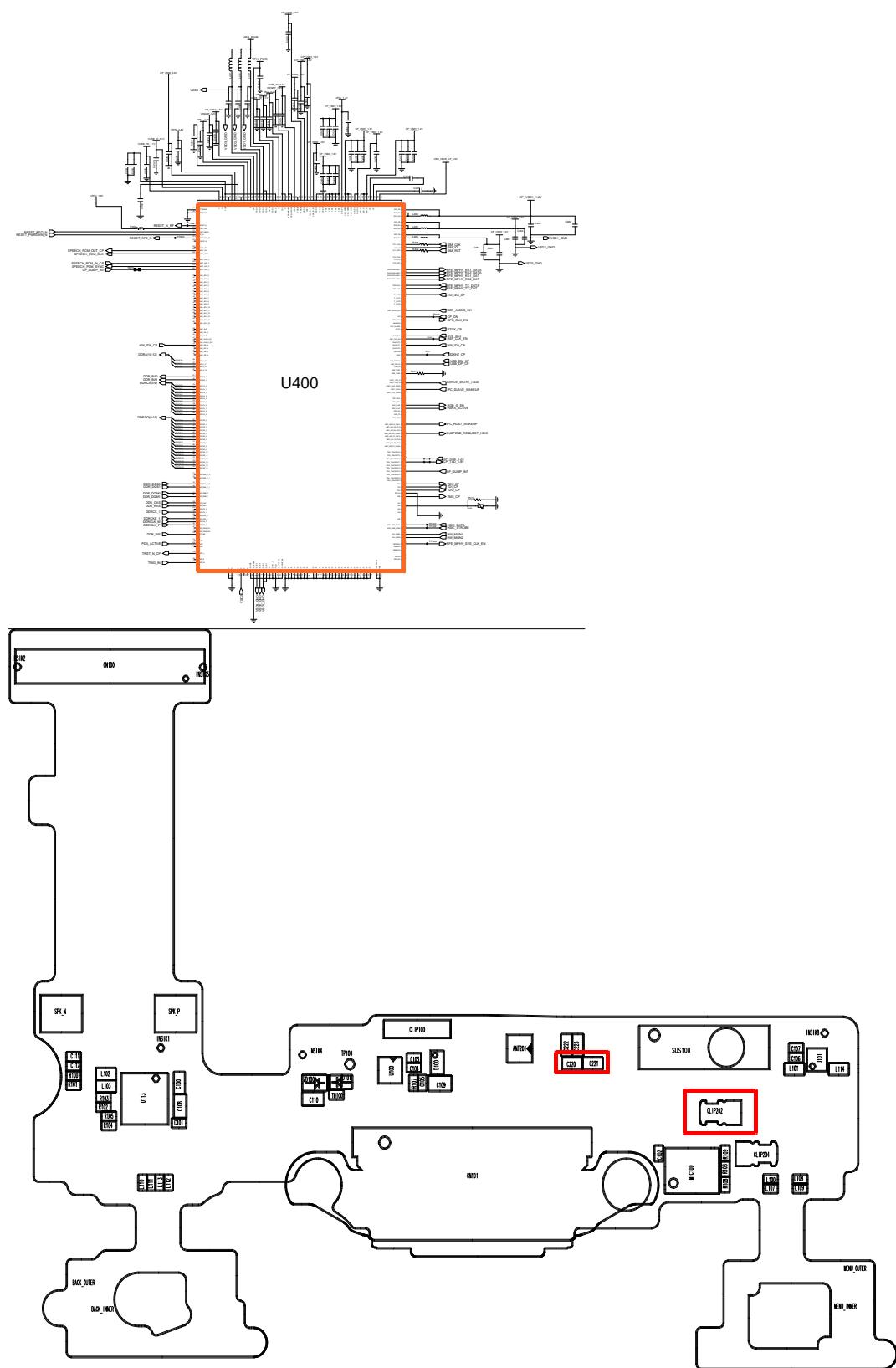


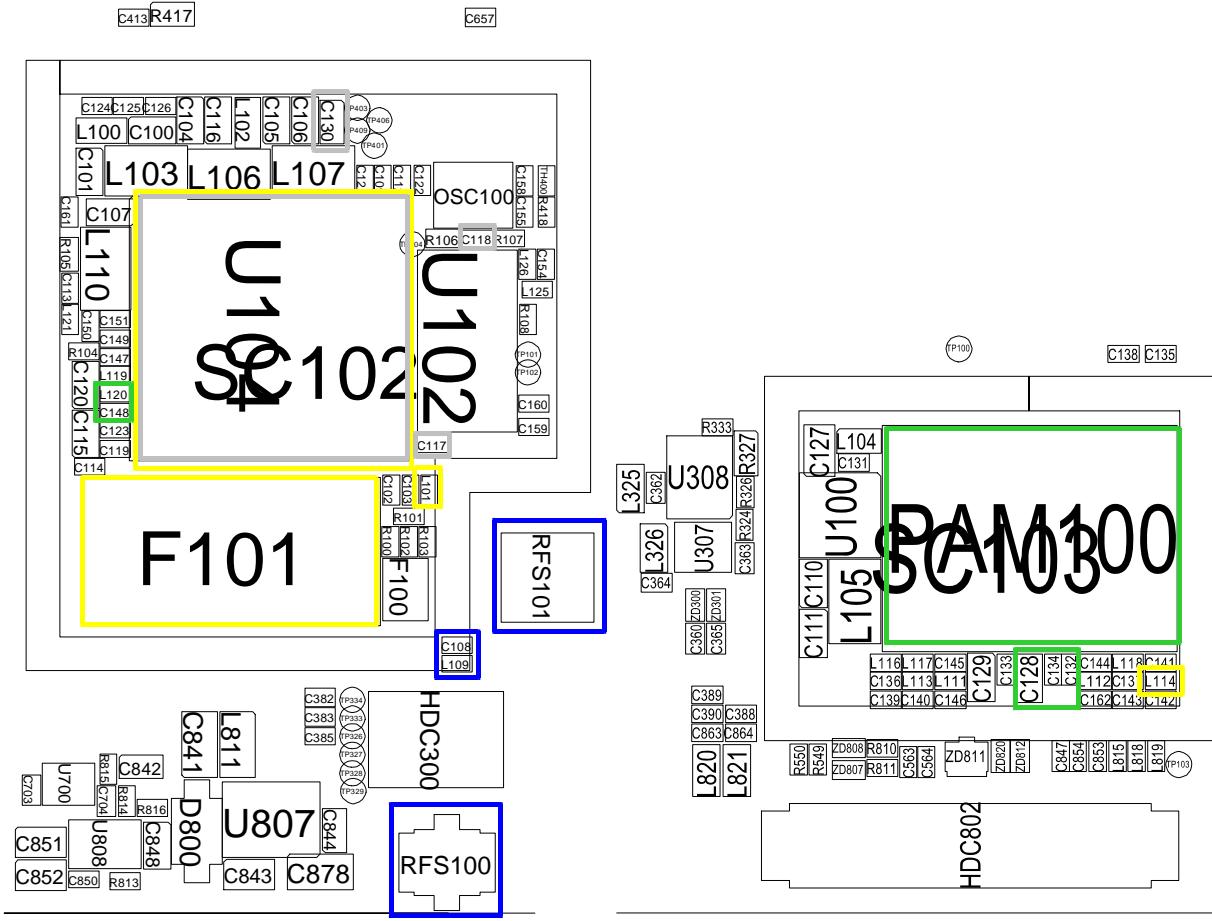
8-3-32. WCDMA850 Tx

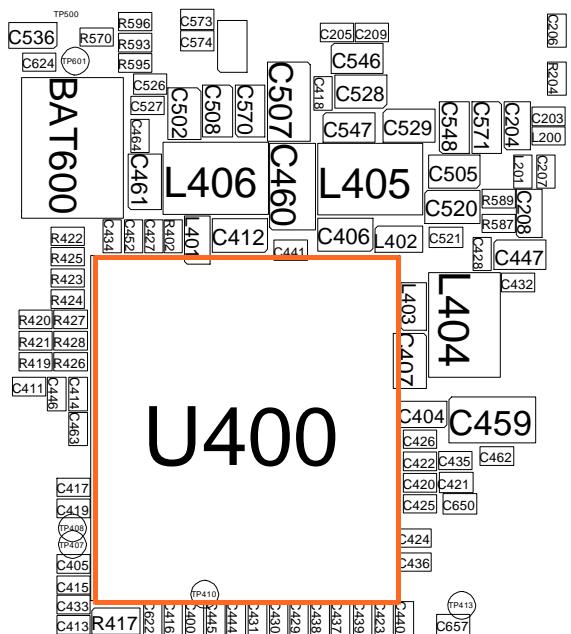




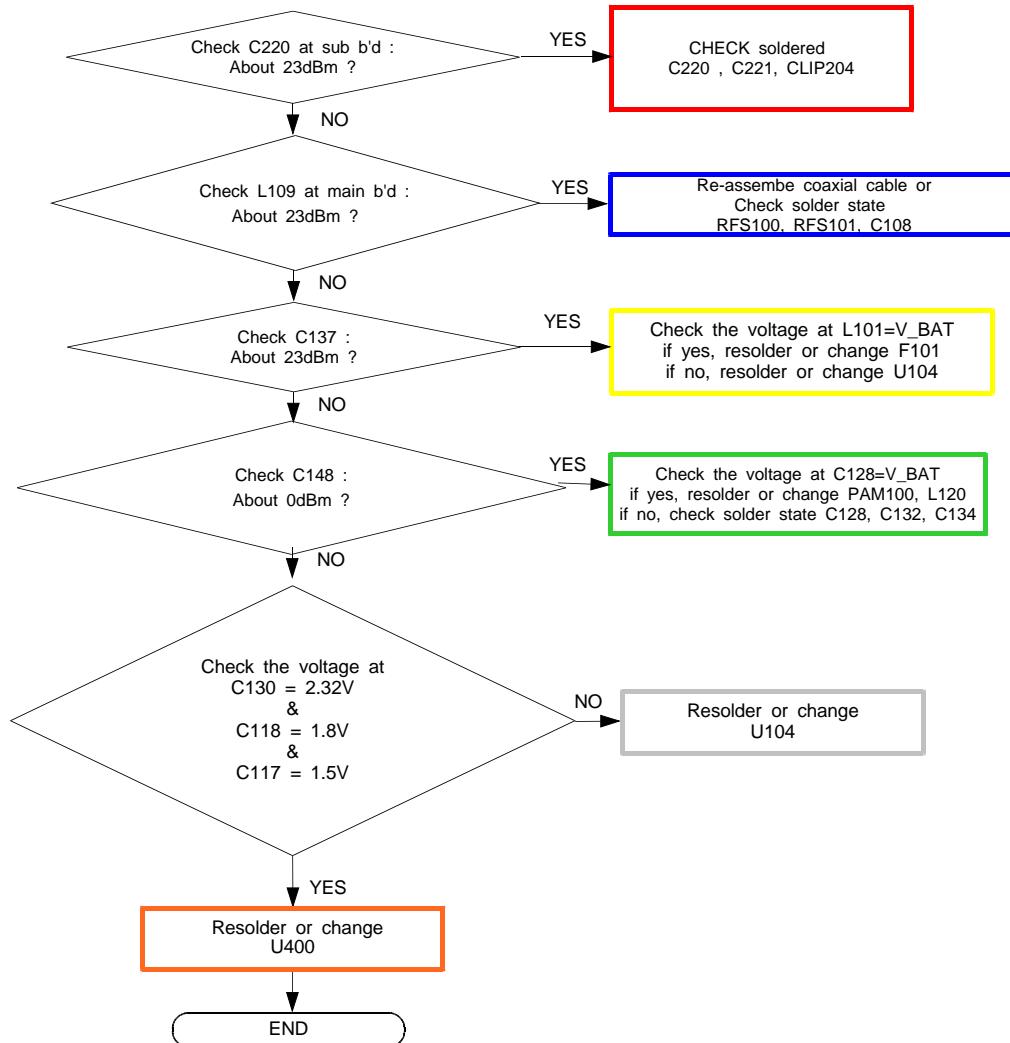


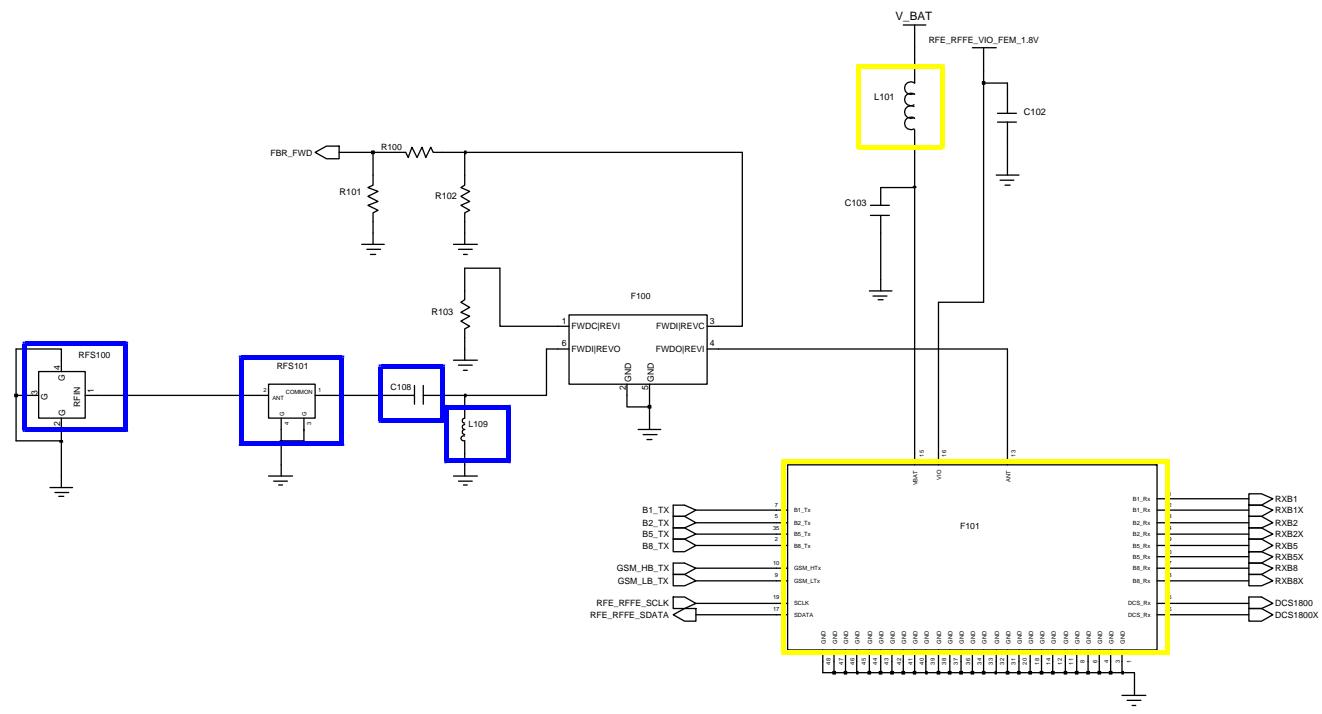
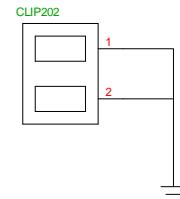
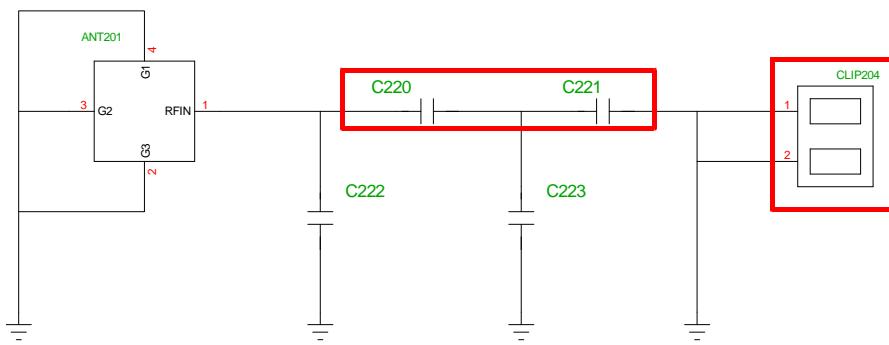


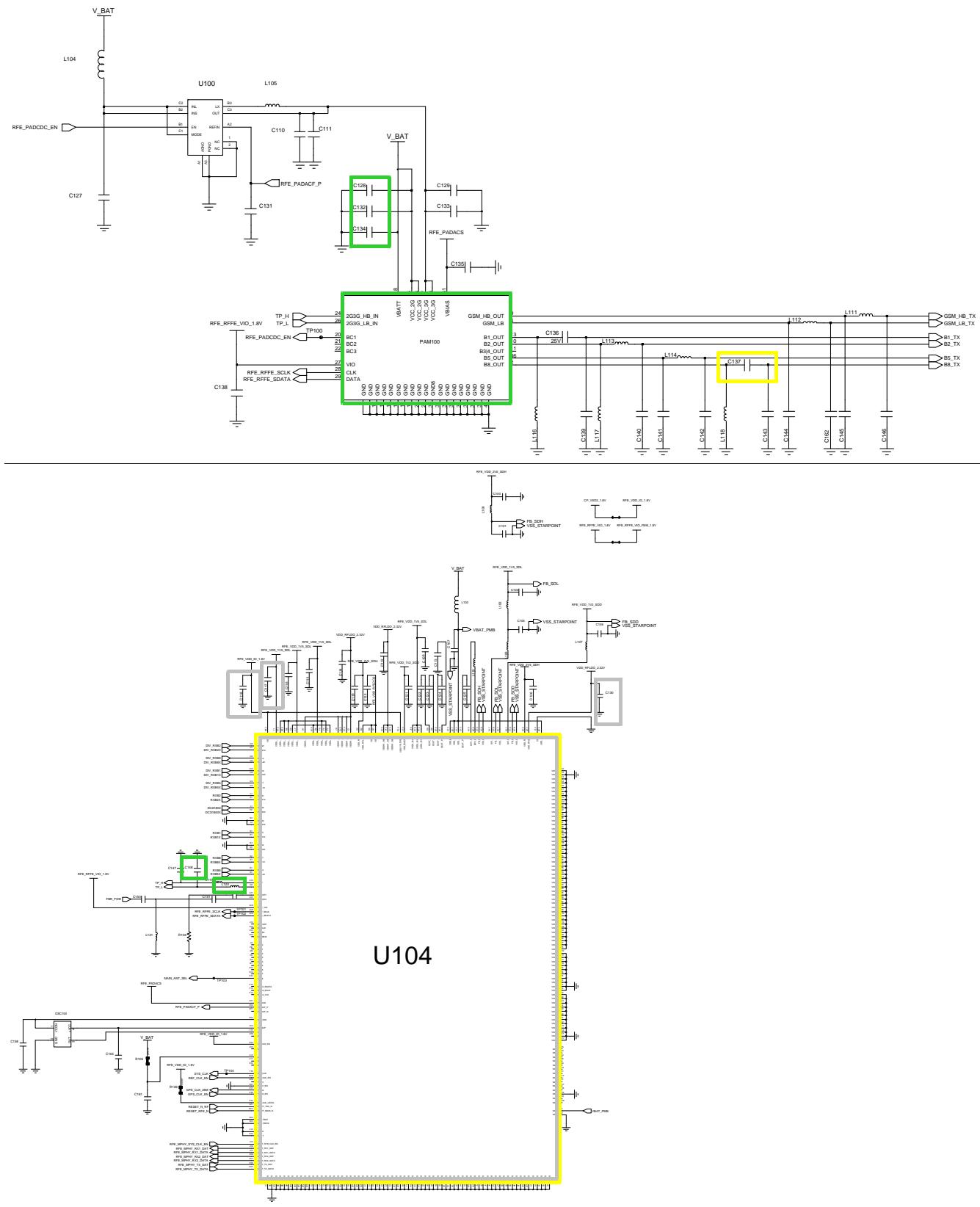


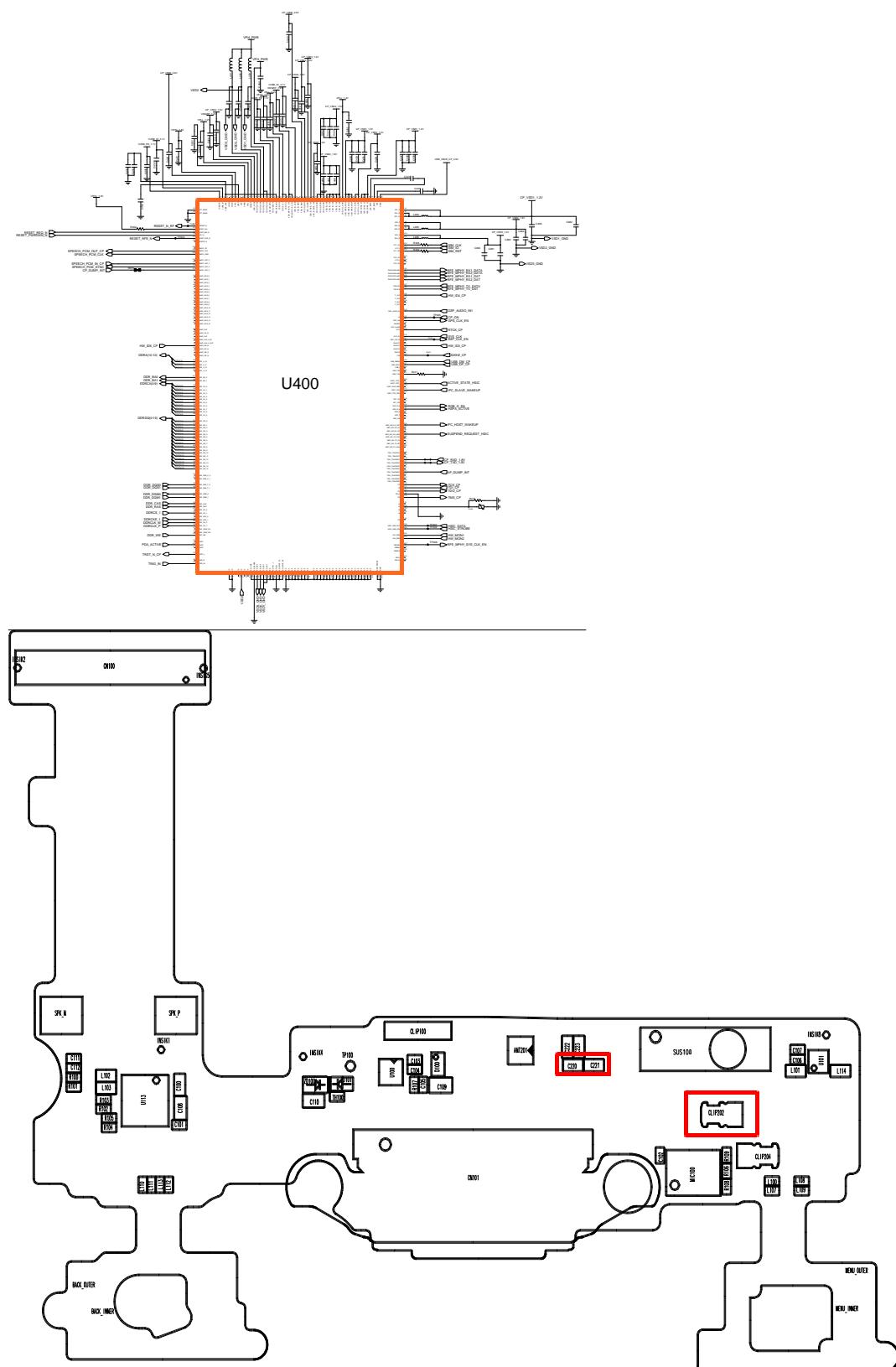


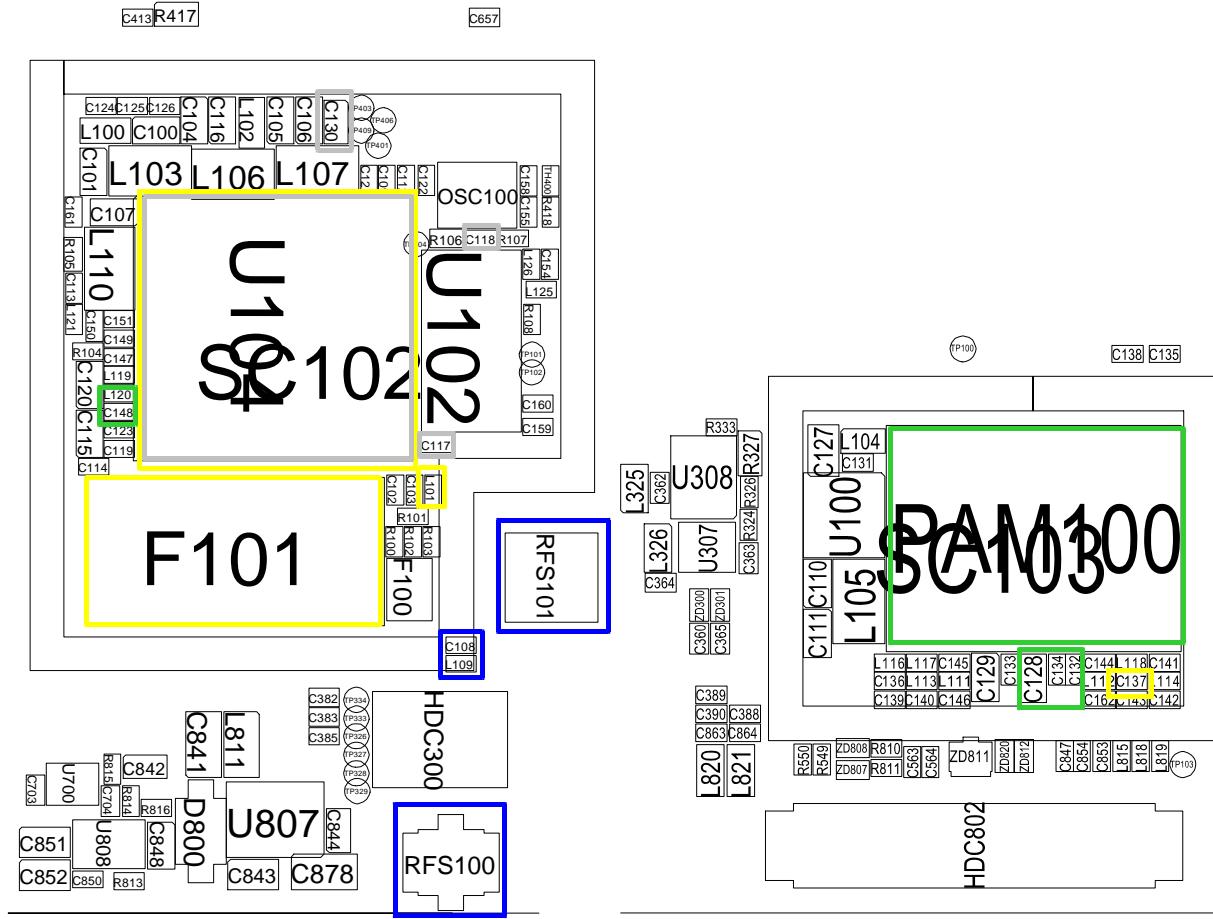
8-3-33. WCDMA900 TX

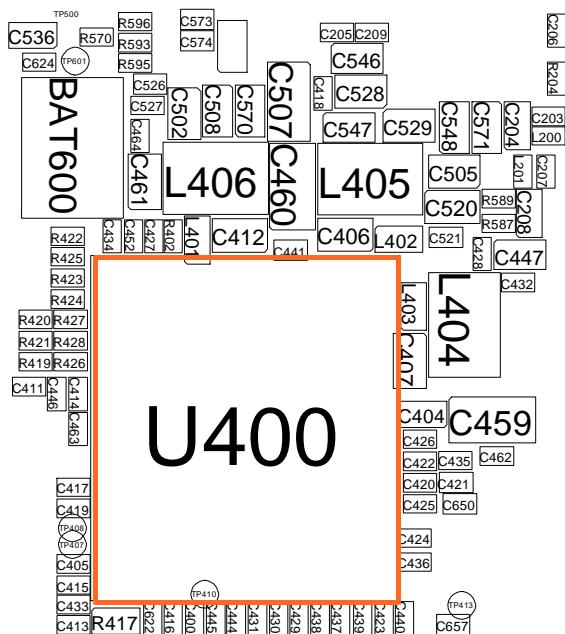












8-4. Service Schematics

- NC Point(Top View)

●: NC

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
A	●	○	○	●	●	○				○	○	○	○	○	○	○	●
B	○	○	●	●	●	○		○	○	○	○	○	○	○	○	○	○
C	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
D	○	○				○	○	○	○	○	○	○	○	○	○	○	○
E	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
F	○	○	○		○		○	○	○	○	○	○	○	○	○	○	○
G	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
H	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
J	○	○	○	○	○	○		○	○	○	○	○	○	○	○	○	○
K	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
L	○	○	○	○	○	○	○		○	○	○	○	○	○	○	●	○
M	○	○	○	○	○	○	○	○		○	○	○	○	○	○	●	○
N	○	○	○	○	○	○	○	○	○		○	○	○	○	○	○	○
P	○	○	○	○	○	○	○	○	○	○		○	○	○	○	○	○
R	○	○	○	○	○	○	○	○	○	○	○		○	○	○	●	○
T	○	○	○	○	○	○	○	○	○	○	○	○		●	○	○	○
U	●	○	○	○	○	○	○	○	○	○	○	○	○	●	○	●	●

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	1	2	3	4	5	6	7	8	9	10	11	12	13	14
A	●	●	○	○	○	○	●	○	○	○	○	○	●	●
B	●	○	○	○	○	○	●	●	●	●	●	○	○	●
C	○	○	○	○	●	○	●	●	●	●	●	○	○	○
D	○	○	○	●								○	○	○
E	○	○	○		●	○	○	●	●	●		○	○	○
F	○	●	○		○					●		○	○	○
G	○	○	●		○					●		○	○	○
H	○	○	○		○					○		○	○	○
J	●	○	●		○					○		○	○	○
K	○	○	○		○	●	●	○	○	●		○	○	○
L	○	○	○									○	○	○
M	○	○	○	○	○	○	●	●	●	●	●	○	○	○
N	●	○	○	○	○	○	●	●	●	●	●	○	○	●
P	●	●	○	○	○	○	●	○	○	●	○	○	●	●

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